

Performance Work Statement

TABLE OF CONTENTS

<u>1.0 GENERAL REQUIREMENTS.</u>	C1-1
1.1 SCOPE.	C1-1
1.2 PHASE-IN PLAN AND PHASE-IN.	C1-1
<u>1.2.1 Recruit.</u>	C1-1
<u>1.2.2 Deliverables.</u>	C1-1
<u>1.2.3 Meetings.</u>	C1-1
<u>1.2.4 Training.</u>	C1-1
1.3 PERSONNEL GENERAL.	C1-2
<u>1.3.1 General Employee Qualifications.</u>	C1-2
<u>1.3.2 Project Management.</u>	C1-2
<u>1.3.3 Employee Conduct.</u>	C1-2
<u>1.3.4 Employee Badges.</u>	C1-2
<u>1.3.5 Security Checks.</u>	C1-2
<u>1.3.6 Orientation Training.</u>	C1-3
1.4 PLANNING, CONTROL AND PROCEDURAL DOCUMENTS.	C1-3
1.5 MEDIA INFORMATION.	C1-3
1.6 DATA AND INFORMATION.	C1-3
1.7 WORKLOAD.	C1-3
1.8 HOURS OF OPERATION.	C1-4
1.9 FACILITY MAINTENANCE.	C1-4
1.10 DOCUMENT REQUIREMENT.	C1-4
<u>2.0 ACRONYMS/DEFINITIONS</u>	C2-1
2.1 ACRONYMS/ABBREVIATIONS.	C2-1
2.2 DEFINITIONS.	C2-4
<u>3.0 GENERAL.</u>	C3-1
3.1 FACILITIES.	C3-1
3.2 SERVICES.	C3-1
<u>3.2.1 Utilities.</u>	C3-1
<u>3.2.2 Telephone Service.</u>	C3-1
<u>3.2.3 Copy Machine.</u>	C3-1
<u>3.2.4 Facsimile Machine.</u>	C3-1
<u>3.2.5 Materials and Supplies.</u>	C3-1
<u>3.2.6 Local Area Network.</u>	C3-1
<u>3.2.7 Custodial.</u>	C3-1
<u>3.2.8 Equipment/Software Training.</u>	C3-1
<u>3.2.9 Personnel Badges.</u>	C3-2
3.3 PROPERTY.	C3-2
<u>4.0 GENERAL.</u>	C4-1

Performance Work Statement

TABLE OF CONTENTS

<u>4.1 EQUIPMENT.</u>	C4-1
<u>4.2 REMOVAL OF EQUIPMENT.</u>	C4-1
<u>5.0 GENERAL.</u>	C5-1
<u>5.1 GLOBAL SERVICE OBJECTIVES.</u>	C5-1
<u>5.1.1 Management Control.</u>	C5-1
<u>5.1.2 Atmosphere.</u>	C5-1
<u>5.1.3 Business Approach.</u>	C5-1
<u>5.1.4 Resources.</u>	C5-1
<u>5.1.5 Metrics.</u>	C5-1
<u>5.1.6 Support.</u>	C5-1
<u>5.1.7 Accountability.</u>	C5-1
<u>5.1.8 Government Records, Information and Facilities.</u>	C5-1
<u>5.2 TELECOMMUNICATION GATEWAY.</u>	C5-1
<u>5.2.1 Telecommunication Support.</u>	C5-3
<u>5.2.2 Switch Operations.</u>	C5-4
<u>5.2.3 Automated Surface Observing Systems Operations and Monitoring Center.</u>	C5-5
<u>5.2.4 Systems Monitoring and Coordination Center.</u>	C5-9
<u>5.2.5 Contingency Back-Up Site.</u>	C5-12
<u>5.2.6 Technological Enhancements.</u>	C5-12
<u>6.0 APPLICABLE DOCUMENTS.</u>	C6-1
<u>6.1 MANDATORY.</u>	C6-1
<u>6.2 ADVISORY.</u>	C6-2

Performance Work Statement

SECTION C-1

GENERAL REQUIREMENTS

1.0 GENERAL REQUIREMENTS.

1.1 SCOPE. Provide personnel and management necessary to operate the National Weather Service (NWS) Telecommunication Gateway (NWS TG) located in Silver Spring, Maryland. The NWS TG is a data switching and communication facility operated to ensure the continuous acquisition and dissemination of NWS domestic and foreign hydro meteorological data and products. NWS TG is the United States interface to the worldwide operational data distribution system called the Global Telecommunications System in support of the World Meteorological Organization (WMO) for the exchange of vital environmental and weather data. This mission critical function of the NWS supports the protection of life and property and the enhancement of the national economy.

Provide equipment, tools and materials except for those items or services specifically stated in Section C.3 and Technical Exhibit (TE) 3 as government-furnished. The services shall be performed in accordance with regulations inclusive of changes, supplements, specifications, drawings, attachments and exhibits contained herein or incorporated by reference. The functional areas include:

- Telecommunications Support
- Switch Operations
- Automated Surface Observing Systems (ASOS) Operations and Monitoring Center
- Systems Monitoring and Coordination Center

1.2 PHASE-IN PLAN and PHASE-IN. Contract Award Date (baseline zero); Phase-in Plan Delivery (30 calendar days after contract award); government review (next 30 calendar days after phase-in plan delivery); Service Provider Phase-In (60 calendar days after contract award); Performance Start Date/Start of Contract Base Period (120 calendar days after contract award). During Phase-In prepare to assume full responsibility for areas of operation in accordance with the terms and conditions of this contract. Take actions necessary for a smooth transition of the contracted operations. The government will make appropriate facilities and equipment available to the Service Provider for a maximum of 60 calendar days prior to the contract performance start date for observation and for Phase-In requirements of this contract. During the Phase-In period:

1.2.1 Recruit. Recruit and hire necessary personnel.

1.2.2 Deliverables. Develop and submit any required deliverables.

1.2.3 Meetings. Attend post-award meetings.

1.2.4 Training. Accomplish training to support the functions listed in Section C.5.

Performance Work Statement

SECTION C-1

GENERAL REQUIREMENTS

1.3 PERSONNEL GENERAL.

1.3.1 General Employee Qualifications. Service Provider employees shall be trained and qualified under the requirements specified. Maintain the work force in such a manner as to ensure that the employees remain fully qualified. Service Provider employees must be fluent in English both written and verbal.

1.3.2 Project Management. Provide a Project Manager or designated alternate on-site throughout the term of the contract. The Project Manager and designated alternate shall be authorized to act on behalf of the Service Provider for matters to include the authority to bind the Service Provider and be designated in writing to the Contracting Officer at Phase-In start date. The Project Manager or designated alternate shall be on-site, Monday through Friday, excluding Federal holidays. The Project Manager or designated alternate shall be available for emergency situations. The Project Manager shall act as a central point of contact with the government. The Project Manager, or designated representative, shall be required to attend briefings, conferences and other government designated meetings.

1.3.3 Employee Conduct. Government rules, regulations, laws, directives and requirements, which are in place or issued relating to law and order, administration, safety, and security shall be applicable to Service Provider employees.

1.3.4 Employee Badges. Personnel shall visibly display government furnished identification badges.

1.3.5 Security Checks.

1.3.5.1 *Operational Access.*

A National Agency Check and Inquiries (NACI) check will be required of all Service Provider personnel. Service Provider personnel must have U.S. citizenship. These personnel shall complete the following forms with the pertinent personnel data:

- National Oceanic and Atmospheric Administration (NOAA) Form 65-8, Request for Security Services;
- FD-258, Fingerprint Applicant;
- Standard Form (SF) 85, Questionnaire for Non-Sensitive Positions;
- Fair Credit Reporting Act of 1970, as amended (no form number); and,
- Optional Form (OF) 306, Declaration for Federal Employment.

The government will complete NOAA Form 65-8 for funding purposes. Service Provider personnel will report to the NOAA security office, Building SSMC4, fifth floor room 5338, with the completed forms. Service Provider personnel may be provided with temporary access until

Performance Work Statement

SECTION C-1

GENERAL REQUIREMENTS

the investigation has been completed. The government will perform the necessary checks and adjudicate the findings as follows:

- A clear check will result in issuance of a NOAA access badge.
- Checks identified with issues will result in the Contracting Officer's Technical Representative (COTR) finding either: 1) further investigation is necessary; or, 2) the employee will not be allowed access to the facility.

In the event a Service Provider employee is not allowed access or a replacement employee is proposed, the government will perform an investigation on a replacement candidate at Service Provider expense.

1.3.5.2 Backup Facility Access. During the second quarter of fiscal year 2004, the government will establish a backup facility located on Federal Emergency Management Agency (FEMA) property in Mt. Weather, VA. Service Provider employees must have U.S. Citizenship and social security number for a FEMA security investigation. In the event a Service Provider employee is not allowed access or a replacement employee is proposed, the government will perform an investigation on a replacement candidate at Service Provider expense.

1.3.6 Orientation Training. The government will conduct orientation training for initial Service Provider personnel. Replacement personnel orientation training is the responsibility of the Service Provider. The orientation shall include, but not be limited to the following:

- The role of the respective functional area
- The respective functional area's general work requirements
- Safety
- Information security

1.4 PLANNING, CONTROL AND PROCEDURAL DOCUMENTS. Develop, implement and maintain planning, control and procedural documents. Implement and maintain a security program for control of personnel, property and information, documents and records.

1.5 MEDIA INFORMATION. All media contacts will be referred to COTR.

1.6 DATA AND INFORMATION. Attend and participate in scheduled and unscheduled meetings to provide effective communication and impart necessary information. These meetings may include both on-site and off-site events.

1.7 WORKLOAD. The workload data displayed in Section C.5 is based on historical outputs or effort related to a specific function for a stated period of time. Trouble tickets, log events and call data are seasonal and weather dependent; therefore the information provided is for staffing information only and does not reflect actual numbers that may be experienced by the Service Provider. These figures are based on fiscal year 2001 and 2002 historical data and have been projected for the entire performance period.

Performance Work Statement

SECTION C-1

GENERAL REQUIREMENTS

The workload is continuous over each 24 hour period 7 days a week, 365 days a year. There is a slight increase in normal workload Monday through Friday from 7 AM EST to 7 PM EST because of scheduled system switches, tests, preventative maintenance and in-house software or hardware implementations. Weather and external factors that are beyond our control may cause substantial changes in data volumes and required support at any time. Outages of all types and customer requests can occur at any time.

1.8 HOURS OF OPERATION. Services are 24 hours per day, 7 days per week including holidays unless identified elsewhere in this contract.

1.9 FACILITY MAINTENANCE. Coordinate requested facility-related maintenance, repairs and upgrades to facilities listed in TE-3 with the designated government representative.

1.10 DOCUMENT REQUIREMENT. All documents and deliverables shall be provided to the government utilizing WordPerfect products.

Performance Work Statement

SECTION C-2

ACRONYMS/DEFINITIONS

2.0 Acronyms/Definitions

2.1 Acronyms/Abbreviations.

ABACUS	Automated Weather Observing System (AWOS)/ASOS (ADAS) Backup System
ACCB	ASOS Configuration Control Board
ADAS	AWOS/ASOS Data Acquisition System
ALDARS	Automated Lightning Detection and Reporting (Ranging) System
AMSS	Automated Surface Observing System Maintenance Support System
ANBURS	Alphanumeric Backup Replacement System
AOMC	ASOS Operations and Monitoring Center
APMC	ASOS Program Management Committee
ASOS	Automated Surface Observing System
ASWG	ASOS Software Working Group
AWIPS	Advanced Weather Interactive Processing System
AWOS	Automated Weather Observing Site
CADAS	Centralized Automated Data Acquisition System
COTR	Contracting Officer's Technical Representative
CSU	Channel Service Unit
DDR	Data Disk Restore
ECC	Executive Communications Center
EMRS	Engineering Management Reporting System
ESA	Extended System Architecture
FAA	Federal Aviation Administration
FEMA	Federal Emergency Management Agency
FTP	File Transfer Protocol
GFP	Government Furnished Property
GISRA	Government Information Security Reform Act
GMDSS	Global Maritime Distress and Safety System

Performance Work Statement

SECTION C-2

ACRONYMS/DEFINITIONS

GTA	Ground-To-Air
IBM	International Business Machines
ISCS	International Satellite Communications System
LAN	Local Area Network
METAR	Meteorological Aviation Report
NACI	National Agency Check and Inquiries
NCDC	National Climatic Data Center
NCEP	National Center of Environmental Prediction
NCF	Network Control Facility
NOAA	National Oceanic and Atmospheric Administration
NWS	National Weather Service
NWSTC	National Weather Service Training Center
NWSTG	NWS Telecommunication Gateway
NWWS	NOAA Weather Wire System
OF	Optional Form
OTR	Operational Trouble Report
RADAR	Radio Detection and Ranging
RFC	River Forecast Center
RFI	Radio Frequency Interference
RTH	Regional Telecommunication Hub
SDM	Senior Duty Meteorologist
SF	Standard Form
TE	Technical Exhibit
TOC	Telecommunication Operations Center
TT	Trouble Ticket
WAFS	World Area Forecast System
WFO	Weather Forecast Office
WMO	World Meteorological Organization

Performance Work Statement

SECTION C-2

ACRONYMS/DEFINITIONS

WMSCR	Weather Message Switching Center Replacement
WSOM	Weather Service Operations Manual
VM	Virtual Machine
VSAT	Very Small Aperture Terminal

Performance Work Statement

SECTION C-2

ACRONYMS/DEFINITIONS

2.2 Definitions. The definitions set forth below are those unique to this contract. The listing of definitions is not all-inclusive.

Administrative Bulletin - a WMO formatted product, using a defined identifier that does not contain weather data but does contain information on data status, requests for data, notice of upcoming events or outages, or anything deemed important for customer knowledge.

Archive 5-Minute Data for Aircraft Incidents - the process of remotely dialing into an ASOS and establishing a local archive of 5-minute observations for an hour before and an hour after the time of the aircraft incident.

ASOS Operational Trouble Report - ASOS Operational Trouble Report (OTR) contains information on system deficiencies or design flaws that have been diagnosed by the ASOS Operations and Monitoring Center (AOMC) or brought to our attention by technicians or customers. They will also include options and suggestions for correction.

Complaint - Complaints shall be classed as **Major** or **Minor** based upon one or more of the following factors:

- A. Service impact in terms such as number of circuits affected, length of outage, etc.
 - Complaints on outages of NWS communications paths that exceed maximum restoral times are major.
 - Complaints on outages that delay the start of model runs at NCEP are major.
 - Complaints about any unprofessional actions, unprofessional statements made to customers or failure to take reasonable actions to support customer requests are major.
- B. Level of management contacted by the client
 - Complaints to upper NWS management are always major
- C. Number of clients affected (complaints from more than one client about the same incident shall be counted as a single complaint).

Complaints relating to incidents where the operator's actions are found to be proper and within the quantitative requirements of the contract shall be judged **unjustifiable** and not counted against complaint count for the week/month, otherwise the complaint shall be classed as **justifiable** and counted.

Government COTR will make the determination as to classification as major or minor and, further, whether or not the complaint is justified against the operator.

Performance Work Statement

SECTION C-2

ACRONYMS/DEFINITIONS

Corrective Action - work necessary to restore a system back to operational functionality or data back to operational availability with the least possible impact to the operation. Action may include:

- Re-sending data
- Notifying common carriers, software support, contract support, technical support or hardware support
- Notifying distant end
- Notifying data originator
- Initiating communication backups
- Restarting modems/Channel Service Units (CSU)
- Correcting data
- Notifying data management or manipulating data queues
- Restarting servers
- Reloading front-end processors or routers
- Restarting virtual machines
- Switching to backup system
- Clearing Priority 3 Trouble tickets
- Notifying FAA/NWS ASOS technicians

Critical Weather Day - the Senior Duty Meteorologist (SDM) declares based upon actual or expected critical weather generating additional data flow. During this period non-critical changes (hardware, software, etc.) may not be accomplished unless directed by COTR or the designated government representative.

Customer - any user of weather data, website(s), or help desk. Customers include the general public, federal agencies, the Department of Defense, the Advanced Weather Interactive Processing System (AWIPS) Network Control Facility (NCF), the National Center of Environmental Prediction (NCEP) SDM, foreign countries and other Service Providers.

Dooms Day Kit - backup kit stored off-site for catastrophic failures. Dooms Day Kit may change as system requirements and databases are updated. Kit currently contains:

- Boxes of cartridge tapes with Data Disk Restore (DDR) information
- Floppy disks with all addresses in firewall with passwords and flash cards
- Master disk Map Listing
- Compact disks with router information
- Diskette with circuit drawing
- System directory listing

Performance Work Statement

SECTION C-2

ACRONYMS/DEFINITIONS

Escalate Tickets - process by which the failure currently flagged by an ASOS, or being investigated by an ASOS, warrants escalating it from a low level failure to a higher priority

External Coordination - coordination process that involves non-NWSTG persons or agencies. This is required when an event/implementation/test/outage at the NWSTG will result in an expected, direct impact on a group of customers.

Event - any situation that impacts or MAY impact NWSTG operations. Such “events” may include the SDM declaring a Critical Weather Day or an outage at some distant site (such as Europe, Asia or some government agency) that may affect data availability or timeliness.

First Level Support - the first entry level into the system where the controller on watch handles incoming callers looking for help or assistance.

Host System - International Business Machines (IBM) 9672 processor using the IBM Virtual Machine/Extended System Architecture (VM/ESA) operating system.

Implementation - process of making a new system, application, piece of equipment or data set operational. Sometimes this “implementation” may be replacing a previous version or installing a new item. Customers are notified on how this “implementation” affects the current data flow and what new functionality is being provided or what old functionality is being removed.

Low Level Maintenance - simple, routine maintenance actions flagged during routine internal diagnostic checks. Examples include but are not limited to changing printer ribbons and paper, and cable swaps.

Major Complaint - (see complaint)

Major Event - any upgrade, change, outage or test that affects the ability of the NWSTG or it's customers to conduct business.

Manned Sites - weather observing site where either observers and/or air traffic controllers provide backup or augmentation support.

Manual Backup - the process of manually switching a process, communication path or piece of hardware to an alternate.

Minor Complaint - (see complaint)

Minor Event - any upgrade, change, outage or test that affects the NWSTG or its customers to a lesser extent than a major event (e.g., outages on circuits that the NWSTG only transmits on do not effect any other customers, outages, scheduled or unscheduled, of such sort duration that will not be noticeable to customers, outages on receive circuits during very low data times, outages on circuits that have alternate sources of data.).

Next Level Support - the next level into the system where incoming callers, looking for help or assistance are routed when the controller on watch is unable to assist the caller.

Performance Work Statement

SECTION C-2

ACRONYMS/DEFINITIONS

Non-Maintenance Issues - issue that involves assisting or providing guidance to users where no maintenance support (technicians, programmers, etc.) is deemed necessary.

Notification - a coordination event with customers. For major implementations or tests the coordination is 30-90 calendar days in advance of the event. Minor implementations or tests are coordinated one (1) to two (2) calendar days in advance of the event or as directed by COTR.

On-Time - Global Maritime Distress and Safety System (GMDSS) meteorological areas have both navigational and meteorological information broadcast on a regularly scheduled basis, it is necessary to maintain an internationally coordinated broadcast schedule to allow all products to be broadcast without interference and to let mariners know when to expect specific products. The WMO in coordination with other international agencies has established broadcast schedules for SafetyNet traffic.

Remote Backup - the process of switching a process, communication path or piece of hardware to a remote off-site location in the event of catastrophic failure at the primary site.

Required Backup Event - a non-scheduled event caused by the failure of some operational system, communication path or software package for which a backup possibility exists. This backup enables routine or degraded operation to be restored.

Routine Backup Event - a scheduled switch to a backup system, communication path or software package to test the backup capabilities.

Routine Software Backup - disk backups to tape at scheduled time periods. These backups are performed at time periods and on systems that do not negatively impact the operations.

Routine System Switches - a regularly scheduled switch of a system to a backup. Performed to verify the availability of the alternate system in the event that this switch would be required due to system failure.

STAR4 - a UNIX based computer processing system that receives the data feed from the International Satellite Communications System (ISCS)/World Area Forecast System (WAFS) broadcast. The system is capable of message receipt, storage, display, and file transfer protocol (FTP) applications. The STAR4 has optional software designed to permit construction and transmission of standard WMO meteorological messages to the Washington Regional Telecommunication Hub (RTH) when the very small aperture terminal (VSAT) is configured as a two-way site.

SafetyNet Traffic - a WMO formatted product, using a predefined identifier, that contains special marine forecasts and advisories that are broadcast to ships at sea at predefined intervals and as situations require.

Site File Recovery and Restoration - process of recovery and/or restoration of site specific data file(s) when problems have occurred with an ASOS sites specific configuration parameters, either locally with the ASOS or within the site data file housed at the NWSTG.

Performance Work Statement

SECTION C-2

ACRONYMS/DEFINITIONS

Test - may involve a temporary “implementation”, to see the interaction with other operational processes and to give customers an opportunity to see new data sets and check their ingest and decoder processes. It may involve periodic checking of backup processes or hardware. It may involve a temporary modification to a particular data type to see if the impact is what is expected.

Trouble Ticket Report - the Trouble Ticket Report refers to the Trouble Ticket (TT) system implemented in the NWSTG. The TT system sorts all tickets by field. The fields include a TT identification number, the System involved, a category and Sub-category (The NWS provides the System, Category and Sub-category options), the event start and end times, customer fields if applicable and a problem description and resolution free text field. The report covers the period from the close of the previous TT report to 30 minutes before the delivery time.

Unknown Queue - a queue of all products that arrive at the NWSTG with improperly formatted identifiers, headers that are not in the switching directory or special headers that are flagged for distribution (e.g., administrative products).

Unmanned Site - ASOS site that does not have a qualified observer on the premises to augment the observations as required.

Virtual Machine - the functional equivalent of a computing system. Each virtual machine is controlled by an operating system. VM/ESA controls the concurrent execution of multiple virtual machines on an actual processor complex.

Performance Work Statement

SECTION C-3

GOVERNMENT PROPERTY AND SERVICES

3.0 GENERAL. The government will provide facilities and property as set forth below and in TE-3. The government will maintain property records. Facilities and property will be assessable to government personnel and other government contracted Service Providers, therefore, the government will maintain all facilities and property. The Service Provider shall be responsible for damage to facilities or property resulting from Service Provider personnel negligent acts.

3.1 FACILITIES. The government will furnish or make available facilities to support Section C.5 requirements. Obtain COTR approval prior to constructing any new structures on government property or making any structural changes. Structural repairs or changes required shall be reported to the COTR for appropriate action. Government approved structural changes are at Service Provider expense. The government will furnish the operational facility located at 1325 East West Highway, Silver Spring Metro Center II, Room 6390, Silver Spring, MD 20910. Facility layout is available in the solicitation technical library. The contingency back-up site will be located at FEMA in Mt. Weather, VA with an anticipated start date for paragraph 5.2.5 performance during the second quarter of fiscal year 2004.

3.2 SERVICES.

3.2.1 Utilities. The government will furnish electrical power, sewer services and water at no cost during performance. The Service Provider shall carefully conserve furnished utilities.

3.2.2 Telephone Service. The government will provide telephone service as required for official use only for local and long distance commercial calls.

3.2.3 Copy Machine. The government will provide access to two (2) copy machines for use in performance of this contract. The Service Provider, government, and other government contracted Service Providers will share the copy machines.

3.2.4 Facsimile Machine. The government will provide access to two (2) facsimile machines for use in performance of this contract. The Service Provider, government, and other government contracted Service Providers will share the facsimile machines.

3.2.5 Materials and Supplies. The government will provide materials necessary for the operation of all government provided equipment to include but not limited to printer paper, printer ribbons, and printer cartridges. The government will provide general office supplies for the performance of this contract.

3.2.6 Local Area Network. The government will provide access to the existing local area network (LAN) to include email capability.

3.2.7 Custodial. The government will furnish custodial services.

3.2.8 Equipment/Software Training. The government will furnish initial training for each functional area to Service Provider personnel. Training is to include information and procedures on all applications and processes that are unique to the NWSTG environment and will not

Performance Work Statement

SECTION C-3

GOVERNMENT PROPERTY AND SERVICES

include generally available training on standard operating systems, hardware and communication protocols. Change in Service Provider personnel will not result in additional training and will become the responsibility of the Service Provider. The government or its agent will provide training for equipment/software listed in technical exhibits as well as new equipment or software installed during the term of the contract. Training will occur at the government-furnished facility.

3.2.9 Personnel Badges. The government will conduct security investigations on Service Provider personnel. Authorized Service Provider personnel will be provided with access badges to the facility.

3.3 PROPERTY. The government will make available the GFP listed in TE-3.

Performance Work Statement

SECTION C-4

SERVICE PROVIDER-FURNISHED PROPERTY AND SERVICES

4.0 General. Furnish all materials, supplies, tools, facilities and equipment required to perform this contract, except for those items or services specifically stated to be government-furnished in Section C.3 and TE-3. Government approval shall be required to install/remove Service Provider equipment to/from government furnished facilities.

4.1 Equipment. Clearly mark all Service Provider owned equipment so as to be recognizable from government furnished equipment.

4.2 Removal of Equipment. Within five (5) workdays after completion or termination of this contract, remove all Service Provider equipment, tools, supplies, materials and other items from the facility. The government will not be responsible for any Service Provider owned property left after contract completion or termination. The government will dispose of Service Provider owned property remaining after the time stated herein at Service Provider expense.

Performance Work Statement

SECTION C-5

TASKS

5.0 General. Provide management and services to operate the NWSGT located in Silver Spring, Maryland.

Develop and maintain a customer-oriented culture, set expectations of quality, provide a motivating climate, solve problems, remove obstacles and deliver high-quality performance in a real time, operational environment.

Perform the requirements within this Performance Work Statement in accordance with the most current version of the referenced applicable documents. Mandatory documents shall be utilized in performance of all tasks called out in this section. Non-mandatory documents may be utilized in performance of these tasks.

Demonstrate a commitment to these customer-driven, service-related expectations by establishing procedures that achieve the global service objectives.

5.1 Global Service Objectives.

5.1.1 Management Control. Provide proactive and flexible management control in the fulfillment of these support services.

5.1.2 Atmosphere. Foster an atmosphere in which the goal is focused on meeting the performance standards and customer expectations, set forth herein, and eliminating customer complaints.

5.1.3 Business Approach. Establish a business approach that embodies sound financial management concepts, supply discipline, flexibility and best business practices.

5.1.4 Resources. Provide quality personnel and resources, except those designated as government furnished, to accomplish requirements.

5.1.5 Metrics. Develop, maintain and analyze metrics for these services and employ a process of continuous improvement.

5.1.6 Support. Support/attend meetings, briefings, inspections, financial budgeting and reporting and prepare, maintain, submit or make accessible correspondence, records, reports and data associated with all work requirements.

5.1.7 Accountability. Ensure accountability for all government furnished assets and all facilities, systems and equipment assigned for operation.

5.1.8 Government Records, Information and Facilities. Prevent unauthorized access or release of government records, information and facilities.

5.2 Telecommunication Gateway. Update and maintain the Trouble Ticket Report. Develop and update weekly metric information. Update operational procedures upon COTR or designated government representative notification. Staff a help desk for first and next level support. Open, track, update, and closeout trouble tickets. Trouble tickets shall be opened for all problems,

Performance Work Statement

SECTION C-5

TASKS

outages, complaints, questions, events and status notifications received. Perform low-level maintenance on government furnished equipment. Notify internal and external customers of situations that affect the customer process. Interface with and assist various maintenance Service Providers, government personnel, government agencies and non-government agencies. Monitor operational E-mail account for incoming messages concerning customer requests, data inquiries, operational instructions, event notification and other operational issues. Post events and system/data status to the web page. Provide written assessment of all performance complaints received by the service provider and NWS to include explanation and resolution.

<u>Service</u>	<u>Frequency</u>	<u>Occurrences</u>
Trouble Ticket Report	Daily	1
On-Site Meetings	Monthly	30
Off-Site Meetings	Yearly	20
<u>Reference</u>	<u>Performance Standard</u>	
PS 5.2 - 1	Electronic Trouble Ticket Report delivered no later than 7:00AM daily for events that occurred up to 6:30AM.	
PS 5.2 - 2	Escalate major events to the designated government representative within two (2) hours of occurrence 99% of the time. Remaining 1% within three (3) hours of the occurrence.	
PS 5.2 - 3	Notify customers of scheduled events more than two (2) hours before the event 95% of the time. Remaining 5% coordinated at least 30 minutes before the event.	
PS 5.2 - 4	Notify customers of unscheduled major events not later than 15 minutes after start of the event 90% of the time. Remaining 10% within one (1) hour of the event.	
PS 5.2 - 5	Notify customers of unscheduled major events within one (1) hour of end of the event 90% of the time. Remaining 10% within two (2) hours of end of the event.	
PS 5.2 - 6	Provide outage, test or event status updates within one (1) hour of status change 90% of the time. Remaining 10% within two (2) hours of the status change.	
PS 5.2 - 7	Provide outage, test or event status updates within three (3) hours 90% of the time when no change has occurred.	
PS 5.2 - 8	Notify SDM and AWIPS NCF of major events within 10 minutes of the event 95% of the time. Remaining 5% within 20 minutes of the event.	

Performance Work Statement

SECTION C-5

TASKS

PS 5.2 - 9	Read any messages in the operational email account(s) within one (1) hour of receipt 90% of the time. Remaining 10% within two (2) hours of receipt.
<u>Reference</u>	<u>Performance Standard</u>
PS 5.2 - 10	Written complaint assessment delivered to COTR by close of business the following workday after the complaint was received 90% of time. Remaining 10% by the close of business on the second workday after the receipt of the complaint.
PS 5.2 - 11	Major complaints shall not exceed one (1) per month 90% of the time
PS 5.2 - 12	Minor complaints shall not exceed three (3) per week 95% of the time

5.2.1 Telecommunication Support. Monitor circuits, networks, and data exchange paths of the NWSTG. Diagnose telecommunication problems for carrier, communication protocol or data problem. Notify carrier(s) of problems, track resolution, implement backup procedures and notify interested end user(s). Formulate and transmit administrative bulletins for major and minor events. Monitor and correct unknown queue identifier errors. Coordinate with distant end and resolve problems. Coordinate with/assist maintenance technicians, programmers and other government personnel to resolve NWSTG problems. Document and maintain changes to customer contact information. Re-send, correct format and determine status, availability and distribution of customer data products.

<u>Service</u>	<u>Frequency</u>	<u>Occurrences</u>
Trouble Ticket Documents	Monthly	1736
Telephone Calls Incoming	Monthly	492
Telephone Calls Outgoing	Monthly	390
Dial Up Backup Events	Monthly	2
Follow-Up Backup Events	Monthly	1
Recovery Backup Events	Monthly	1
Communication Events	Monthly	1050
Critical Events	Monthly	5
Required Backup Events	Monthly	3
Routine Backup Events	Monthly	12
Data Events	Monthly	368

Performance Work Statement

SECTION C-5

TASKS

Data Transmit Lost/Sent Events	Monthly	687
Unknown Queue	Monthly	21,210 (Daily amounts range from 300 to 4000)
Test Backup Events	Monthly	1
<u>Service</u>	<u>Frequency</u>	<u>Occurrences</u>
Equipment Events	Monthly	3
Status Check Events	Monthly	162
Reboot Events	Monthly	11
Administrative Bulletins	Monthly	9
<u>Reference</u>	<u>Performance Standard</u>	
PS 5.2.1 - 1	Diagnose and initiate telecommunication corrective action within 15 minutes of error notification 95% of the time. Remaining 5% within one (1) hour of error notification.	
PS 5.2.1 - 2	Diagnose and initiate network failure corrective action within 15 minutes of error notification 95% of the time. Remaining 5% within one (1) hour of error notification.	
PS 5.2.1 - 3	Research, diagnose cause and validity of data problems, and initiate response and corrective action within 15 minutes of error notification 95% of the time. Remaining 5% within one (1) hour or error notification.	
PS 5.2.1 - 4	Review 100% of the unknown queue once an hour 98% of the time. Correct at least 20% of product identifier errors in the unknown queue within one (1) hour of receipt 75% of the time. Remaining 25% within two (2) hours of data receipt.	

5.2.2 Switch Operations. Monitor and operate the switching system, servers, routers, front-end processors, packet switches and associated peripheral equipment. Diagnose failures and take corrective action to restore service. Initiate backup procedures. Monitor progress, escalate when necessary, and obtain current status of the completion of external software/hardware repair. Monitor and document system performance. Develop, maintain and provide system documentation to include operating instructions, procedures and training plans. Backup Doms Day Kit and transport to off-site location. Document and maintain changes to customer contact information. Review proposed major system changes, both hardware and software, and provide input to the COTR on operational impact or feasibility.

<u>Service</u>	<u>Frequency</u>	<u>Occurrences</u>
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Performance Work Statement

SECTION C-5

TASKS

Dooms Day Kit		
-Cartridge Tapes with Data Disk Restore	Quarterly	1
-Firewall Information and Flash Cards	Quarterly	1
-Mdisk Map Listing	Quarterly	1
-Router Information	Quarterly	1
-Circuit Drawing	Quarterly	1
-System Directory Listing	Quarterly	1
Disk Backup	Daily	8
<u>Service</u>	<u>Frequency</u>	<u>Occurrences</u>
Transport Dooms Day Kit	Quarterly	1
Trouble Ticket Documents	Monthly	1560
Telephone Calls Incoming	Monthly	562
Telephone Calls Outgoing	Monthly	559
Application Actions	Monthly	140
Application Restarts	Monthly	1
Required Backups	Monthly	5
Routine Backups	Monthly	12
Circuit Events	Monthly	2
RADAR Image Events	Monthly	684
Status Events	Monthly	684
System Action Events	Monthly	20
System Restart Events	Monthly	7
<u>Reference</u>	<u>Performance Standard</u>	
PS 5.2.2 - 1	Diagnose and initiate recovery steps within 15 minutes of any system (to include software, hardware or network) failure indication 95% of the time. Remaining 5% within one (1) hour of failure indication.	

5.2.3 Automated Surface Observing Systems Operations and Monitoring Center. Provide monitoring oversight of deployed NWS and Federal Aviation Administration (FAA) sponsored ASOS sites. Monitor ASOS sites for functionality and timely delivery of system products, including ALDARS information. Document non-maintenance related issues for ASOS sites in the Trouble Report system log entries. Coordinate dispatching of technician(s) with the Weather Forecast Office (WFO). Coordinate with/assist network providers or government agencies to include but not limited to the FAA, WFOs, River Forecast Centers (RFC), and the AWIPS NCF

Performance Work Statement

SECTION C-5

TASKS

for outages involving the long-line distribution of ASOS Meteorological Aviation Report (METAR) products. Maintain and manage dedicated ASOS site-specific data files for all fielded ASOS sites other than Department of Defense overseas ASOS sites. Provide site file recovery and restoration support for ASOS site-specific configuration files. Maintain ASOS peak wind algorithm criteria data sets and implement changes to ASOS as required. Perform AOMC system backups/archiving. Provide technical information and assistance for ASOS users. Provide technical assistance with scheduled and/or emergency field changes and upgrades involving deployed ASOS systems. Archive aircraft incident five (5) minute data or extreme weather events and provide copies as requested by the COTR. Provide data support for configuration management of the Engineering Management Reporting System (EMRS) system with daily summary of all processed trouble tickets. Monitor and operate all AOMC systems and associated peripheral equipment. Diagnose all failures and take corrective action to restore service.

5.2.3.1 AOMC System Administration. Perform system administration for AOMC servers, workstations, and associated systems. Analyze, design, develop and implement changes and upgrades to AOMC web page(s). Manage and maintain AOMC Web page(s). Maintain documentation on all requests and fixes for AOMC Web pages. Manage and maintain the AOMC Maintenance Support System (AMSS) Trouble Ticket database. Ensure trouble ticket information is posted to the web site. Manage and maintain government-furnished software using NOTRIX, REXX and Visual Basic. Manage and maintain AOMC-to-National Climatic Data Center (NCDC) site-specific data file changes program. Manage, maintain, and provide administrative support for internal NWSTG voice-mail system. Provide technical support in defining and/or designing enhancements and/or upgrades with the AOMC maintenance monitoring programs and processes involving ASOS. Provide administrative support and assistance in tracking changes and/or updates with ASOS software, hardware, and site-specific information. Establish procedures/processes for creating new site-specific data files to support changes to the ASOS system requiring new site-specific parameter data file(s). Define, design, coordinate, and implement all software/hardware upgrades and/or enhancements with the AOMC/AMSS servers, Lotus Notes/Domino, Procomm and the required operating system. Monitor for intruders attempting to gain access to the AOMC background systems, maintain security oversight for all AOMC systems and take corrective action when questionable users/activities are discovered. Review and implement AOMC Government Information Security Reform Act (GISRA) form biannually. Coordinate and provide video teleconference training session to NWS field technicians attending the NWS ASOS Technician course at the NWS Training Center (NWSTC). Provide technical assistance, and support. Provide support and coordinate responses to international ASOS and AOMC requests for information with the COTR. Develop and provide presentations on the AOMC mission and support of ASOS. Provide input and support for NWS and FAA surface observing rules, policies, and procedures. Provide input and support for NWS and international meteorological requirements, policies, and procedures. Provide technical guidance, support and assistance for NWS and FAA network communications

Performance Work Statement

SECTION C-5

TASKS

systems. Provide technical assistance to technicians for implementation of ASOS system upgrades and/or enhancements. Provide input on change impact, provide program guidance and ensure that the AOMC maintains and can support ASOS standards and objectives by attending ASOS Configuration Control Board (ACCB) meetings, ASOS Program Management Committee (APMC) meetings and ASOS Software Working Group (ASWG) meetings. Review all proposed or pending changes, upgrades or enhancements and provide follow-up status.

<u>Service</u>	<u>Frequency</u>	<u>Occurrences</u>
Trouble Tickets Documents	Annually	104,500
Telephone Calls Incoming	Monthly	4,454
<u>Service</u>	<u>Frequency</u>	<u>Occurrences</u>
Telephone Calls Outgoing	Monthly	3,958
Disk Backup	Daily	1
Backup/Archive Data	Daily	1
Backup/Archive Data (One [1] Month)	Monthly	1
Site specific support Data Base maintenance	Monthly	2
System Administration	Weekly	1
Security (System, Network)	Daily	1
Database Administration Access Control Indexes Compact/Archiving	Monthly	1
EMRS Input	Daily	1
METARs with maintenance flag	Monthly	59,095
Technician Training Session	Quarterly	1
Lotus Notes Database	Annually Annually Annually	23 Forms 87 Views 26 Agents (98 lines)
REXX Programs (Seven Programs)	Annually	2,418 Lines of Code
International AOMC Requests	Annually	1

Performance Work Statement

SECTION C-5

TASKS

Government AOMC Requests	Annually	12
Industry AOMC Requests	Annually	4
Public AOMC Requests	Annually	12
International ASOS Requests	Annually	1
Government ASOS Requests	Annually	5
Industry ASOS Requests	Annually	1
ACCB Meeting	Annually	4
APMC Meeting	Annually	4
<u>Service</u>	<u>Frequency</u>	<u>Occurrences</u>
ASWG Meeting	Annually	4
Public ASOS Requests	Annually	1
International AOMC Presentations	Annually	1
Government AOMC Presentations	Annually	2
Industry AOMC Presentations	Annually	2
Public AOMC Presentations	Annually	2
Visual Basic (Five Programs) -30-Day FAA Report -30-Day NWS Report -Hourly Observations -Daily Logs -Trouble Ticket Numbers	Annually Annually Annually Annually Annually	2,977 Lines of Code 1,089 Lines of Code 714 Lines of Code 551 Lines of Code 1,249 Lines of Code
<u>Reference</u>	<u>Performance Standard</u>	
PS 5.2.3 - 1	Manual trouble tickets opened within one (1) hour of error notification 95% of time. Remaining 5% opened within two (2) hours of error notification.	
PS 5.2.3 - 2	All trouble tickets closed within one (1) hour of site restoration notification 95% of time. Remaining 5% closed within two (2) hours of restoration notification.	
PS 5.2.3 - 3	Diagnose priority 1 and 2 failures and initiate notification within one (1) hour of opening the trouble ticket 95% of the time. Remaining 5% within two (2) hours of opening the trouble ticket.	

Performance Work Statement

SECTION C-5

TASKS

PS 5.2.3 - 4	Diagnose priority 3 failures and initiate corrective action for site within one (1) hour of opening the trouble ticket 90% of the time. Remaining 10% within two (2) hours of opening the trouble ticket. Clear 30% of priority 3 trouble tickets in house.
PS 5.2.3.1 - 1	Web Page operational 98% of time
PS 5.2.3.1 - 2	Web page checked every two (2) hours to ensure trouble ticket information is posting 100% of time. Diagnose posting failures and initiate corrective action within fifteen (15) minutes of error detection 90% of time. Remaining 10% within one (1) hour of error detection.
PS 5.2.3.1 - 3	Validate availability of all internal AOMC systems to include hardware, software and applications at the start of shift 100% of time. Diagnose availability failures and initiate corrective action within fifteen (15) minutes of error detection 90% of time. Remaining 10% within one (1) hour of error detection.
<u>Reference</u>	<u>Performance Standard</u>
PS 5.2.3.1 - 4	Validate availability of the Lotus Notes, Domino and Notrix databases at the start of shift 100% of time. Diagnose availability failures and initiate corrective action within fifteen (15) minutes of error detection 90% of time. Remaining 10% within one (1) hour of error detection.
PS 5.2.3.1 - 5	Backup systems available or can be made available whenever the primary system fails 100% of time.

5.2.4 Systems Monitoring and Coordination Center. Monitor end-to-end data flow of NWS dissemination systems. Diagnose problems and coordinate with/assist data originator(s), customer(s), other Service Provider(s) support personnel and other government agencies to resolve problems. Send STAR4 site outage message. Monitor and ensure RADAR images are posted to regional headquarters servers. Monitor the receipt of data from all RADAR sites. Initiate ANBURS backup. Post problem report to the web page. Document and maintain customer contact information. Perform Centralized Automated Data Acquisition System (CADAS) and Star4 system administration. Monitor and respond to the Executive Communications Center (ECC) "Red Phone". Monitor NWSSTG group email accounts. Provide WAFS throughput analysis. Update NWSSTG display sign. Monitor systems for other agencies' hardware on the computer floor and report alarms to these agencies. Monitor facility water detection system, air handler/cooling system, fire/smoke detection system, security entry system, electrical and uninterrupted power system, and emergency generator(s) at the operational and contingency sites. Monitor facilities through building alarms, telephone calls and observations. Notify personnel, take system action (power down or backup), evacuate personnel and confirm evacuation. Provide access to the facility for authorized personnel.

Performance Work Statement

SECTION C-5

TASKS

<u>Service</u>	<u>Frequency</u>	<u>Occurrences</u>
Trouble Ticket Documents	Monthly	2154
Telephone Calls Incoming	Monthly	291
Telephone Calls Outgoing	Monthly	790
Alpha Numeric Backup Replacement System (ANBURS) Events	Monthly	2
ANBURS Follow-up Events	Monthly	2
<u>Service</u>	<u>Frequency</u>	<u>Occurrences</u>
Communications Events	Monthly	2
Critical Weather Events	Monthly	2
Critical Events	Monthly	1
Data Events	Monthly	2
<u>Service</u>	<u>Frequency</u>	<u>Occurrences</u>
Data Follow-up Events	Monthly	1
GMDSS Events	Monthly	60
GMDSS Follow-Up Events	Monthly	1
Monitor Events	Monthly	1
Information Events	Monthly	1
Network Events	Monthly	1
Network Follow-Up Events	Monthly	1
National Weather Wire Service (NWWS) Events	Monthly	180
NWWS Follow-Up Events	Monthly	31
NWWS/Radio Detection and Ranging (RADAR) Events	Monthly	2
RADAR Site Events	Monthly	1518
RADAR Follow-Up Events	Monthly	223
RADAR/ANBURS Events	Monthly	1
Site Scan Events	Monthly	58
Site Scan Follow-Up Events	Monthly	3

Performance Work Statement

SECTION C-5

TASKS

Status Check Events	Monthly	48
Building Evacuation Events	Monthly	1
Facilities Events	Monthly	2
Facilities Follow-Up Events	Monthly	3
Star4 System Administration	Yearly	1
Executive Communications Center	Annual	3
WAFS Thru put Analysis (0900 Zulu and 2000 Zulu)	Daily	2
DPLA DRIS Command (2359 EST)	Daily	1
<u>Reference</u>	<u>Performance Standard</u>	
PS 5.2.4 - 1	Check CADAS hourly for product production 96% of the time.	
PS 5.2.4 - 2	Diagnose CADAS errors and initiate corrective action within thirty (30) minutes of error notification 95% of the time. Remaining 5% within two (2) hours of error notification.	
<u>Reference</u>	<u>Performance Standard</u>	
PS 5.2.4 - 3	STAR4 site outage message not later than 1800 Zulu 95% of the time. Remaining 5% within two (2) hours of 1800 Zulu.	
PS 5.2.4 - 4	Diagnose RADAR Multicast System site outages and take corrective action within 10 minutes of notification 90% of the time. Remaining 10% within 30 minutes of notification.	
PS 5.2.4 - 5	Diagnose RADAR Multicast System failures and initiate corrective action within five (5) minutes of notification 95% of the time. Remaining 5% within 15 minutes of notification.	
PS 5.2.4 - 6	Initiate NWWS System corrective action to a site not on satellite uplink within 30 minutes of notification 90% of the time. Remaining 10% within one (1) hour of notification.	
PS 5.2.4 - 7	Diagnose GMDSS System monitor failures and take corrective action within one (1) hour of monitor failure 90% of the time. Remaining 10% within two (2) hours of monitor failure.	
PS 5.2.4 - 8	Diagnose GMDSS data dissemination failures and initiate recovery within 15 minutes of the failure 90% of the time. Remaining 10% within one (1) hour of the failure.	
PS 5.2.4 - 9	Initiate action for facilities alarms within five (5) minutes 100% of the time.	

Performance Work Statement

SECTION C-5

TASKS

PS 5.2.4 - 10	Diagnose WAFS broadcast errors and take corrective action within one (1) hour of notification 90% of the time. Remaining 10% within two (2) hours of notification.
PS 5.2.4 - 11	Diagnose RADAR Image posting outages and take corrective action within 15 minutes of notification 90% of the time. Remaining 10% within one (1) hour of notification.
PS 5.2.4 - 12	Initiate the ANBURS backup system within 10 minutes of notification of service interruption with the FAA Weather Message Switching Center Replacement (WMSCR) system or the AWIPS NCF 95% of the time. Initiate within 20 minutes of notification the remaining 5% of the time.

5.2.5 Contingency Back-Up Site. Operate the contingency back-up site during any catastrophic event. Continuously monitor the site remotely to ensure equipment remains functional. Coordinate with/assist maintenance technicians, programmers and other government personnel to resolve functional problems. Conduct exercises utilizing the site. The contingency site will begin operation during the second quarter of fiscal year 2004.

<u>Service</u>	<u>Frequency</u>	<u>Occurrences</u>
Unscheduled Operations (Beginning Second Quarter of Fiscal Year 2004)	Yearly	1
Scheduled Exercises (Beginning Second Quarter of Fiscal Year 2004)	Quarterly	1
<u>Reference</u>	<u>Performance Standard</u>	
PS 5.2.5 - 1	Backup site fully operational within six (6) hours of a catastrophic event.	
PS 5.2.5 - 2	While backup site is not being used operationally, diagnose and initiate recovery steps within one (1) hour of any system (to include software, hardware or network) failure indication 95% of the time. Remaining 5% within three (3) hours of failure indication.	

5.2.6 Technological Enhancements. Assess government technological or operational enhancement proposals. Provide written assessment to the COTR. Implement approved technological enhancements.

<u>Service</u>	<u>Frequency</u>	<u>Occurrences</u>
Proposal Assessments	Annually	10

Performance Work Statement

SECTION C-5

TASKS

<u>Reference</u>	<u>Performance Standard</u>
PS 5.2.6 - 1	Written assessments to COTR within five (5) workdays of receipt 90% of the time. Remaining 10% within 10 workdays.
PS 5.2.6 - 2	Government approved technological/operational enhancements implemented within approved assessment milestones.

Performance Work Statement

SECTION C-6

APPLICABLE DOCUMENTS

6.0 Applicable Documents.

6.1 Mandatory.

<u>Reference</u>	<u>Number/Date</u>	<u>Title</u>
Department of Commerce		
1.3.3	Number/Date	Department of Commerce Safety Plan
National Oceanic and Atmospheric Administration		
1.3.3	Number/Date	National Oceanic and Atmospheric Administration Evacuation Plan
National Weather Service		
1.3.3	Handbook 15 / date Sections 3-5, 18, 19, 23-25 and 30	National Weather Service Engineering Handbook (Occupational Safety and Health)
5.2	N/A	On-Call List
5.2	http://205.156.54.206/pub/msgdist/nwstgdir.txt	NWSTG Switching Directory
5.2.1	N/A	Circuit Book Listing*
5.2.3	Weather Service Operations Manual (WSOM) Chapter H-54	Automated Surface Observing System Maintenance
5.2.3	July 1996	National Weather Service Modernization and Associated Restructuring, Automated Surface Observing System (ASOS) Site Component Commissioning Plan
*Circuit Book Listings contain sensitive information. This data will be made available to the selected Service Provider only. Sample diagrams will be made available at the technical library for proposal purposes.		
Operational Procedures		
5.2	Operational Procedure 1, July 23, 2002	Notification Procedures for Critical NWSTG Outages
5.2	Operational Procedure 2, July 23, 2002	Notification Methods
5.2.3	Operational Procedure 3, March 18, 2002	Procedures for SiteScan Monitoring
5.2.4	Operational Procedure 4, July 23, 2002	Operating Procedures for the Executive Communications Center (ECC)

Performance Work Statement

SECTION C-6

APPLICABLE DOCUMENTS

<u>Reference</u>	<u>Number/Date</u>	<u>Title</u>
World Meteorological Organization		
5.2	Manual 386, Part II, Attachment II-5; 1991 http://205.156.54.206/oso/table	Manual on the Global Telecommunication System (World Meteorological Organization Tables)
Interagency Agreement		
5.2	September 1, 2000	Interagency Agreement Between the NOAA/NWS and the FAA for Operations, Maintenance and Planned Improvement of ASOS
5.2.6	FEMA	NLT 2 nd quarter FY 2004.
Forms		
1.3.5.1	NOAA Form 65-8	Request for Security Services
1.3.5.1	FD-258	Fingerprint Applicant
1.3.5.1	SF-85	Questionnaire for Non-Sensitive Positions
1.3.5.1	N/A	Fair Credit Reporting Act of 1970 as amended
1.3.5.1	OF-306	Declaration for Federal Employment

6.2 Advisory.

<u>Reference</u>	<u>Number/Date</u>	<u>Title</u>
Operational Procedures		
5.2.3	Operational Procedure #001, May 01, 1996, Updated December 10, 1996	Creating The AOMC Daily Logs
5.2.3	Operational Procedure #002	Clearing Of "Priority 3" Errors Flagged by ASOS
5.2.3	Operational Procedure #003 and 003a, January 06, 1998	Daily Update Of AMSS Agents
5.2.3	Operational Procedure #004, February 20, 1998	AOMC Voice Mail Service
5.2.3	Operational Procedure #005	Update Of AOMC Watch-To-Watch Turnover Requirements: Tracking Of Missing Observation Trouble Tickets

Performance Work Statement

SECTION C-6

APPLICABLE DOCUMENTS

<u>Reference</u>	<u>Number/Date</u>	<u>Title</u>
5.2.3	Operational Procedure #006, September 03, 1997, Updated June 22, 1998 and September 04, 1998	AOMC/Engineering Management Reporting System (EMRS) Data Files
5.2.3	AOMC/AMSS Operational Procedure #007	ASOS Ground-To-Air (GTA) Radio Frequency Interference (RFI) Reports
5.2.3	Operational Procedure #008 and 008a, December 01, 1998	AOMC/ASOS Backup System (ABACUS) (ASOS Backup System) Daily Operation/Maintenance
5.2.3	Operational Procedure #009, May 14, 1999	Shutting Down/Rebooting The AMSS (ASOS Maintenance Monitoring System) Server
5.2.3	Operational Procedure #010, May 14, 1999	Moving To The AMSS (ASOS Maintenance Monitoring System) Backup Server
5.2.3	Operational Procedure #011, May 14, 1999	Shutting Down/Rebooting The AOMC Background System (AMSS #3/AMSS #4)
5.2.3	Operational Procedure #012, May 17, 1999	Shifting Operations From The Primary AMOC Background System To The Backup System
5.2.3	Operational Procedure #013, May 20, 1999	Creating Site-Specific Data Files Using A Master File Template
5.2.3	Operational Procedure #014, March 09, 2000	Troubleshooting and Outage Reporting For The ASOS-Automated Lightning Detection and Reporting System (ALDARS) Interface
Forms		
5.2.2	N/A	Software Modification Form
Telecommunications Gateway Websites		
5.2	http://205.156.54.206/oso/index.shtml	NWS Telecommunication Gateway
Other Documents		

Performance Work Statement

SECTION C-6

APPLICABLE DOCUMENTS

<u>Reference</u>	<u>Number/Date</u>	<u>Title</u>
<p>The Telecommunication Gateway maintains a technical library for the hardware associated with the operation. This technical literature is available to the Service Provider as advisory documents to assist in the analysis of hardware failures. The Service Provider, if so desired, may retain and maintain this data to assist its personnel. The government will provide new equipment documents, if required. Space is available for document storage.</p> <p>The basis of the workload data was obtained from NWSTG logs. Samples of the unedited, unprocessed logs are available for review upon request.</p>		

FINAL

**Quality Assurance Surveillance Plan
National Weather Service
Telecommunication Gateway**

CONTRACT NO.

DATE:

**Quality Assurance Surveillance Plan
National Weather Service
Telecommunications Gateway**

TABLE OF CONTENTS

<u>TABLE OF CONTENTS</u>	I
<u>GLOSSARY OF TERMS</u>	1
<u>1.0 INTRODUCTION</u>	4
<u>1.1 PURPOSE</u>	4
<u>1.2 POLICY</u>	4
<u>1.3 OBJECTIVE</u>	4
<u>1.4 QUALITY ASSURANCE</u>	4
<u>1.5 NONCONFORMING SUPPLIES OR SERVICES</u>	5
<u>1.6 ACCEPTANCE</u>	5
<u>1.7 QUALITY ASSURANCE METHODOLOGY</u>	6
<u>1.8 ASSURANCE OF PERFORMANCE MEASURES</u>	6
<u>1.9 PERFORMANCE METRICS</u>	6
<u>1.10 SERVICE PROVIDER'S RECORDS</u>	6
<u>1.11 CUSTOMER SATISFACTION</u>	6
<u>2.0 ROLES AND RESPONSIBILITIES</u>	7
<u>2.1 CONTRACTING OFFICER</u>	7
<u>2.2 CONTRACTING OFFICER'S TECHNICAL REPRESENTATIVE</u>	8
<u>2.3 SERVICE PROVIDER</u>	9
<u>3.0 EVALUATING SERVICE PROVIDER PERFORMANCE</u>	10
<u>3.1 ACTIVITIES</u>	10
<u>3.2 RECORDING OBSERVATIONS</u>	10
<u>3.3 REQUESTING CORRECTIVE ACTION</u>	10
<u>4.0 SURVEILLANCE METHODOLOGY</u>	11
FIGURE 1. MAJOR ROLES AND RESPONSIBILITIES	7

**Quality Assurance Surveillance Plan
National Weather Service
Telecommunications Gateway**

GLOSSARY OF TERMS

NOTE: Terms not used currently in this document will be implemented upon development of Section 4.0 which is based upon the Service Provider's Quality Control Plan.

Acceptable Quality Level. The maximum allowable percent defective (or defects per hundred units) for which lots will be accepted most of the time by the sampling procedures being used.

Acceptance. The act of an authorized representative of the government by which the government, for itself or as agent of another, assumes ownership of existing identified supplies tendered or approves specific services rendered as partial or complete performance of the contract.

Contract Quality Requirements. The technical requirements in the contract relating to the quality of the products or services and those contract clauses prescribing inspection, and other quality controls incumbent on the Service Provider, to assure that the product or service conforms to the contractual requirements.

Contract Discrepancy Report. Used to submit contract performance deficiencies through the contracting officer to the Service Provider for corrective action.

Contracting Officer. Government representative authorized to contract services and to execute and enforce contract provisions. The only authority allowed to direct the Service Provider. Responsible for approving the quality assurance surveillance plans.

Contracting Officer's Technical Representative. Government representative designated in writing by the contracting officer to assist in the administration of the service support contract. The authorities and limitations of the contracting officer's technical representative are contained in the letter of appointment.

Critical Nonconformance. A nonconformance that is likely to result in hazardous or unsafe conditions for individuals using, maintaining, or depending upon the supplies or services; or is likely to prevent performance of a vital agency mission.

Government Contract Quality Assurance. The various functions, including inspection, performed by the government to determine whether a Service Provider has fulfilled the contract obligations pertaining to quality and quantity.

Inspection. Examining and testing supplies or services to determine whether they conform to contract requirements.

Latent Defect. A defect that exists at the time of acceptance but cannot be discovered by a reasonable inspection.

Lot. A collection of service outputs from which, a sample is drawn and evaluated to determine conformance with the contract standard.

Lot Size. The total number of service outputs during a specified period of time.

**Quality Assurance Surveillance Plan
National Weather Service
Telecommunications Gateway**

Major Nonconformance. A nonconformance, other than critical, that is likely to result in failure of the supplies or services, or to materially reduce the usability of the supplies or services for their intended purpose.

Output. The services produced by the Service Provider during the contract performance period.

Patent Defect. Any defect that exists at the time of acceptance and is not a latent defect.

Performance Measure. A characteristic of a service output that can be quantified and measured, it can be the quantity as well as the quality of the service output.

Performance Requirement. A specific contract service output to be performed by the Service Provider as described in the contract.

Performance Requirements Summary. A list of contract service outputs, performance criteria, and acceptable quality level.

Performance Standard. The measure used to determine the acceptable delivery of a service.

Performance Work Statement. A document that describes the essential and technical requirements for Service Provider performed services including the standards used to determine whether the requirements have been met.

Quality Assurance. Those actions taken by the government to check Service Provider performed services to determine whether or not they meet the requirements and specifications of the performance work statement.

Quality Assurance Surveillance. The monitoring of Service Provider performance to assure that services received are timely and consistent with contract quality requirements.

Quality Assurance Surveillance Plan. Document used for contract quality assurance planning.

Quality Control. Those actions taken by the Service Provider to control the output of services so that they meet the requirements and specifications of the performance work statement.

Random Number Table. A table of numbers arranged in random fashion used to select a sample.

Random Sampling. A sampling method whereby each service output in a lot has an equal chance of being selected in order to estimate the overall quality of the lot against an established standard.

Sample. One or more service outputs drawn from a lot.

Sampling Guide. A written procedure that describes what will be checked, the standard of performance, the performance indicators, and how the checking will be accomplished through means of random sampling. Formulated by the government utilizing the Service Provider's quality control plan.

Service. A job that calls for the Service Provider to expend time and effort to produce an output that the government can use to accomplish its overall mission.

Contract Number:

**Quality Assurance Surveillance Plan
National Weather Service
Telecommunications Gateway**

Surveillance Activity Checklist. Any acceptable format chosen by the contracting officer's technical representative to evaluate the performance of the Service Provider. The surveillance activity checklist can be used in conjunction with random sampling or with scheduled surveillance activities.

**Quality Assurance Surveillance Plan
National Weather Service
Telecommunications Gateway**

1.0 INTRODUCTION. The contract consists of the performance work statement (PWS), the Service Provider's (SP) Best and Final Offer, amendments, and assorted attachments and technical exhibits. The PWS includes SP submitted reports, forms, and data as a requirement of the contract.

The emphasis of the PWS is on the end product services, not on each detailed step in the work process. It was developed so as not to limit the SP to one way of doing the work requirements. The SP has been given maximum flexibility to manage the work methods selected by the SP.

The Quality Assurance Surveillance (QAS) program will use the SP's Quality Control Plan (QCP) as a basis for its surveillance of the SP's performance. This concept is in keeping with the performance-based services acquisition policy, and that both the government and the SP are evaluating using the same standards. The QAS program is designed to formalize the government's quality assurance of the SP and to provide official notification to the SP and documentation of that notification when the SP is not performing work required by the contract or is not performing work to standard.

1.1 PURPOSE. The purpose of the quality assurance surveillance plan (QASP) is to provide the government with an effective tool to manage contract performance.

1.2 POLICY. Ensure that—

- Contracts include inspection and other quality requirements, including warranty clauses when appropriate, that are determined necessary to protect the government's interest.
- Services tendered by SPs meet contract requirements.
- Government contract quality assurance is conducted before acceptance (except as otherwise provided for), by or under the direction of government personnel.
- No contract precludes the government from performing inspection.
- Nonconforming services are rejected, except as otherwise provided for.
- Contracts for commercial services shall rely on a SP's existing quality control system as a substitute for compliance with government inspection and testing before tender for acceptance.

1.3 OBJECTIVE. The objective of the QAS program is to assure that the government receives acceptable SP performance while keeping the overall costs of the contract surveillance reasonable. This objective is based on the premise that the SP is responsible for the management and quality control of the contract, the government is responsible for performance assessment, and the SP is responsible for performing functional area processes.

1.4 QUALITY ASSURANCE. Government contract quality assurance shall be performed at such time and places as may be necessary to determine the services conform to contract requirements. Government inspection shall be performed by or under the direction or supervision of government personnel. Inspections shall be documented on inspection report forms.

**Quality Assurance Surveillance Plan
National Weather Service
Telecommunications Gateway**

1.5 NONCONFORMING SERVICES. Contracting officers (KO) should reject services not conforming in all respects to contract requirements. In those instances where deviation from this policy is found to be in the government's interest, such services may be accepted only as authorized below:

- SPs should ordinarily be given an opportunity to correct nonconforming services when this can be accomplished within the required delivery schedule. In such cases, correction shall be without additional cost to the government and, the government reserves the right (under the Inspection of Services Clause) to charge the SP the cost of government reinspection and retests because of rejection.
- When correction cannot be accomplished as set forth above, the KO shall ordinarily reject services when the nonconformance is critical or major. However, there may be circumstances (e.g., reasons of economy or urgency) when acceptance of such services is determined by the KO to be in the government's interest. The KO shall make this determination, based upon—
 - Advice of the technical activity that the material is safe to use, and will perform its intended purpose.
 - Information regarding the nature and extent of the nonconformance.
 - A request from the SP for acceptance of the services if feasible.
 - A recommendation for acceptance or rejection, with supporting rationale.
 - The contract adjustment considered appropriate, including any adjustments offered by the SP.
- KOs shall discourage the repeated tender of nonconforming services, including those with only minor nonconformances, by appropriate action, such as rejection and documenting the SP's performance.
- Each contract under which services with critical or major nonconformances are accepted shall be modified to provide for an equitable price reduction or other consideration.
- Notices of rejection shall include the reasons for rejection and be furnished promptly to the SP. Promptness in giving this notice is essential because, if timely nature of rejection is not furnished, acceptance may in certain cases be implied as a matter of law. The notice shall be in writing if—
 - The SP persists in offering nonconforming services for acceptance.
 - Delivery or performance was late without excusable cause.

1.6 ACCEPTANCE. Acceptance constitutes acknowledgement that the services conform with applicable contract quality and quantity requirements. Services shall ordinarily not be accepted before completion of government contract quality assurance actions. Acceptance shall ordinarily be evidenced by execution of an acceptance certificate or an inspection report. Acceptance of services is the responsibility of the KO.

**Quality Assurance Surveillance Plan
National Weather Service
Telecommunications Gateway**

1.7 QUALITY ASSURANCE METHODOLOGY. The SP is the owner of the quality control process and will institute procedures that, if followed, will produce the desired outcomes. The SP is responsible for developing, implementing, and modifying the quality control process to ensure that performance standards are met. The KO will conduct an initial review of the SP's quality control process to ensure its adequacy. Subsequent review of the quality control process will occur if the SP does not meet performance standards.

Assessment of the SP's performance will be based on the performance standards set forth in the PWS and the level of customer satisfaction. The contracting officer's technical representative (COTR) will vary the level of surveillance depending on the SP's conformance to quality levels. The COTR will use statistically valid samples to ensure that the SP's process is accomplishing the desired performance standards of the contract.

The government's intention is to minimize the level of government involvement and allow the SP to responsibly perform to, or exceed, the contract standards. The government's recent experience supports the notion that responsible SPs can produce at acceptable levels of quality without extensive surveillance. If the SP's performance is not satisfactory, and it appears that the SP's quality control process has not produced the desired result, the COTR has the option to increase quality assurance surveillance in order to protect the government's rights.

1.8 ASSURANCE OF PERFORMANCE MEASURES. The COTR will ensure that the SP is following the quality control process described in the SP's proposal by spot-checking services. In performing these activities, the COTR may conclude that recurring problems are indicative of systemic weaknesses in the SP's quality control process. If so, the government will direct the SP to correct the deficiencies in the quality control process.

1.9 PERFORMANCE METRICS. The COTR will periodically examine the SP's forms and data to determine timeliness and quality.

1.10 SERVICE PROVIDER'S RECORDS. The COTR will review the SP's records to ensure that all the reporting requirements of the PWS are being met. The COTR will also spot-check these records for accuracy and completeness. The COTR will further conduct spot checks to confirm that actual performance is consistent with the SP's performance reports.

1.11 CUSTOMER SATISFACTION. The COTR will conduct spot check reviews of customer complaints and will review the SP's resolution of those complaints. The COTR may interview individual customers to determine if the SP satisfactorily reconciled their complaints. Further, the COTR may periodically survey the customer populace to gauge overall customer satisfaction.

It should be recognized that the focus is to shift the quality assurance thinking from individual inspections to determine at the outset if the SP's process, if followed strictly, will produce a deliverable that meets the quality requirements of adhering to the performance requirements. There must be a strict requirement that confidence in the SP's system is based on reasonable assumptions and data, and that the burden is on the SP to demonstrate that procedures are in place that, if followed, will indeed meet the acceptable level of quality.

Quality Assurance Surveillance Plan
National Weather Service
Telecommunications Gateway

Regardless of the surveillance method used, the COTR should allow variation in the extent of oversight to match the changes in the quality assurance program. If evidence exists at any time during the period of performance that the SP's process fails to meet this test, or if the SP fails to follow the system in place, the COTR will immediately increase the level of surveillance. As a result, it may be necessary to revert to individual service inspection, prior to acceptance of the SP's work.

2.0 ROLES AND RESPONSIBILITIES. Figure 1 contains a matrix of major roles and responsibilities assigned to the KO and the COTR.

TASKS	KO	COTR
Service Contract Authority	X	
Only Authority Allowed to Direct SP	X	
Approves QASP	X	
Reviews QASP to Ensure Cost-Effective And Quality Evaluations		X
As Required, Revises the Evaluation Methodology		X
Develops QASP		X
Verifies SP Performance to the KO		X
Develops Surveillance Schedules		X
Conducts Evaluations and Records Results		X
Initiates Reports if SP Services Are Not Acceptable		X

Figure 1. Major Roles and Responsibilities

2.1 CONTRACTING OFFICER. The KO is the only authority that can contract for services and enforce the provisions of the contract. KOs are responsible for-

- Receiving from the activity responsible for technical requirements any specifications for inspection, testing, and other contract quality requirements essential to ensure the integrity of the services (the activity responsible for technical requirements is responsible for prescribing contract quality requirements in a QASP).
- Including in solicitations and contracts the appropriate requirements for the SP's control of quality for the services to be acquired.
- Verifying that the SP fulfills the contract quality requirements.
- Ensuring that nonconformances are identified, and establishing the significance of a nonconformance when considering the acceptability of services that do not meet contract requirements.
- Develop and apply efficient procedures for performing government contract quality assurance actions under the contract.

**Quality Assurance Surveillance Plan
National Weather Service
Telecommunications Gateway**

- Perform all actions necessary to verify whether the services conform to contract quality requirements.
- Maintain, as part of the performance records of the contract, suitable records reflecting—
 - The nature of government contract quality assurance actions, including, when appropriate, the number of observations made and the number and type of defects.
 - Decisions regarding the acceptability of the services, the processes, and the requirements, as well as action to correct defects.
- Recommend any changes necessary to the contract, specifications, instructions, or other requirements that will provide more effective operations or eliminate unnecessary costs.

2.2 CONTRACTING OFFICER'S TECHNICAL REPRESENTATIVE. Contracting Officer's Technical Representatives are non-contracting personnel assigned to functional areas that have been given additional responsibility for assuring the quality of SP provided services. The authorities and limitations of the COTR are specified in an appointment letter issued by the KO. The COTR is the principal advisor to the KO on quality matters and primarily responsible to evaluate the SP's QCP. Following is a list of COTR responsibilities.

- Develop the QASP to ensure cost-effective sampling and quality evaluations, and ensure that QASP addresses all contract modifications and changes.
- Evaluate SP quality control procedures and compliance, identify trends in performance, and perform in-depth studies and/or audits of problem areas.
- Gather, organize, analyze, evaluate, and provide recommendations to the KO on SP proposed corrective actions.
- Schedule surveillance evaluations.
- Review surveillance results and determine appropriate action to be taken.
- Submit contract discrepancy reports (CDR) to the KO for official transmittal to the SP.
- Verify to the KO that the SP has performed the technical and management requirements of the contract.
- As required, revise surveillance evaluation methodology in coordination with the KO.
- Evaluate and accept, partially accept, or reject SP corrective actions in response to CDRs.
- Make independent findings about SP performance and submit them to the KO.
- Take action to identify and eliminate SP deficiencies caused by the government that restricts the SP's ability to perform.
- Perform quality control procedure reviews and procedure evaluations by reviewing and evaluating SP quality records, inspection results, surveillance plans, summaries,

**Quality Assurance Surveillance Plan
National Weather Service
Telecommunications Gateway**

checklists and schedules to determine adequacy of their quality control program and level of compliance with written quality procedures.

- Maintain records as specified in the appointment letter.

2.3 SERVICE PROVIDER.

- Control the quality of services.
- Tender to the government for acceptance only those services that conform to contract requirements.
- Maintain substantiating evidence, when required by the contract, that the services conform to contract quality requirements, and furnishing such information to the government as required.
- Provide and maintain an inspection system or program for the control of quality that is acceptable to the government. Control of quality may relate to, but is not limited to—
 - Reliability and maintainability.
 - Delivery to ensure that only conforming services are tendered to the government.
 - Procedures and processes for services to ensure that services meet contract requirements.

The SP's quality control program is a key part of the overall quality assurance surveillance program in that quality control is those actions taken by the SP to control the output of services so that they meet the requirements and specifications of the contract.

The SP's quality control program is documented in a SP prepared program that must interface with the functional areas. The SP's QCP feeds the government's QASP, thus the QCP must be prepared, submitted to the government, reviewed, and accepted by the KO prior to the completion of the QASP.

The SP quality control program must be evaluated in a manner similar to the methods used to evaluate service outputs. The COTR will prepare surveillance activity checklists that can be used to check the performance standards stated in the SP's quality control program plan. Following are items that may be periodically checked about the SP quality control program.

- Program is in compliance with the contract.
- Quality program/inspection system well documented.
- Quality program/inspection system adequately planned.
- Organizational elements identified and assigned responsibility.
- SP quality control personnel have the authority, responsibility and freedom to act.
- Work instructions are available, followed, and periodically reviewed.
- Objective evidence is maintained to support quality control findings.
- Means exist for assuring the accuracy, timeliness, and completeness of records.
- SP inspection records are complete.

**Quality Assurance Surveillance Plan
National Weather Service
Telecommunications Gateway**

- SP has procedures for making improvements and taking corrective action.
- SP sampling plans and checklists are written and followed.

Discrepancies that are noted while observing and evaluating the SP quality control program will be brought to the attention of the SP for corrective action. Discrepancies are documented and submitted to the KO for formal transmittal to the SP through a CDR. The SP shall respond to CDRs in writing with corrective action taken.

3.0 EVALUATING SERVICE PROVIDER PERFORMANCE.

3.1 ACTIVITIES. Three main activities are to be accomplished:

- (1) Schedule the evaluations;
- (2) Record the observations; and
- (3) Request corrective action on noted discrepancies, either formally using CDRs or informally with annotated checklists depending on the nature and seriousness of the discrepancy.

3.2 RECORDING OBSERVATIONS. Service output and quality control procedure observations are to be recorded on surveillance activity checklists locally prepared by the COTR. Once completed, each checklist will become a formal part of the official contract file and must be retained by the COTR.

In cases where SP performance warrants comment, record the comments on the checklist. Never advise the SP of discrepancies that need corrective action without recording the details on a checklist or a CDR as appropriate.

3.3 REQUESTING CORRECTIVE ACTION. If the SP is providing service outputs and performing quality control according to the performance requirements and standards, and the SP's QCP, then corrective action will not be necessary. When service outputs and quality control performance is not satisfactory, then corrective action will be necessary. The following actions are to be taken when corrective action is necessary:

- Advise the SP of the discrepancy.
- Note the discrepancy on a surveillance activity checklist and provide a copy of the checklist to the SP.
- Prepare a CDR and forward it to the KO for action.
- When the SP responds with the corrective action taken the COTR must evaluate the SP's response and recommend to the KO whether the government should accept, partially accept, or reject the SP's corrective action.
- Once all necessary corrective actions are complete and accepted by the government, CDRs must be closed by the KO and filed in the official contract file.

Contract Number:

**Quality Assurance Surveillance Plan
National Weather Service
Telecommunications Gateway**

4.0 SURVEILLANCE METHODOLOGY. Upon KO acceptance of the SP's quality control plan the COTR will develop specific surveillance methodology used by the government for this requirement.

Performance Work Statement

TECHNICAL EXHIBIT 1

PERFORMANCE REQUIREMENTS SUMMARY

Overview

The performance requirements summary (PRS) lists the performance work statement (PWS) requirements that the Government will surveil. If any of the services performed do not conform to the PWS standards, the Government may require the Service Provider to perform the services again in conformity with service requirements at no additional cost. Other remedial actions are defined in contract clause Inspection of Services. Repeated and chronic unsatisfactory performance by the Service Provider can be grounds for a finding of default on the part of the Service Provider.

Enforceability

The absence of any PWS requirement from the PRS shall not detract from its enforceability nor limit the rights or remedies of the Government under any other provisions of the contract (should a contractor be selected), including the clauses entitled "Inspection of Services" and "Default."

Discussion

The PWS shows all of the services and provides standards of performance. The PRS defines the key services and sets forth the maximum allowable deviation from standard performance for these services that may occur before further Government action will be invoked (e.g., a more detailed inspection, directed changes to the quality control plan, or re-performance).

The maximum allowable deviation from standard performance for a service reflects the maximum percent defective that can be considered average. Exceeding this allowable variance from the standard will cause a service to be rejected.

While overall performance may be satisfactory, the Government has the right to receive full value for money paid at least at standards established in the PWS. Furthermore, it does not say the Service Provider may knowingly offer defective service to the Government, but rather implies defective performance sometimes happens unintentionally. As stated previously, the Service Provider must establish a quality control system that ensures services are provided according to required standards.

Lastly, the maximum deviation from standard represents a floor beyond which Service Provider performance shall never go. A single instance of performance below this floor represents failure to perform, regardless whether all other instances are within the threshold.

Government Quality Assurance Methodology

The Government will inspect the Service Provider to determine if required standards are met. A variety of surveillance methods will be used, including but are not limited to:

- One hundred percent inspection of outputs
- Random sampling of outputs using statistically based sampling procedures

Performance Work Statement

TECHNICAL EXHIBIT 1

PERFORMANCE REQUIREMENTS SUMMARY

- Periodic inspection
- Validated customer complaints
- Performance Evaluation

Performance will be evaluated to determine whether or not it meets required performance standards. When performance standards are not met the Contracting Officer's Technical Representative (COTR) will issue a contract discrepancy to the Service Provider. The Service Provider shall respond to the contract discrepancy and return the response to the COTR within 15 days of receipt.

Service Provider Payment (Contractor award only)

For performance of service that meets performance standards, the Service Provider shall invoice the contract amount as appropriate.

Performance Work Statement

TECHNICAL EXHIBIT 1

PERFORMANCE REQUIREMENTS SUMMARY

PRS Table

<u>Required Service</u>	<u>Standard Number</u>	<u>Standard</u>	<u>Maximum Allowable Degree of Deviation From Requirement</u>
Update and maintain the Trouble Ticket Report.	5.2 - 1	Electronic Trouble Ticket Report delivered no later than 7:00AM daily for events that occurred up to 6:30AM.	0%
Escalate major events.	5.2 - 2	Escalate major events to the designated government representative within two (2) hours of occurrence 99% of the time. Remaining 1% within three (3) hours of the occurrence.	1% 0%
Notify customers of scheduled events.	5.2 - 3	Notify customers of scheduled events more than two (2) hours before the event 95% of the time. Remaining 5% coordinated at least 30 minutes before the event.	5% 0%
Notify customers at start of unscheduled major events.	5.2 - 4	Notify customers of unscheduled major events not later than 15 minutes after start of the event 90% of the time. Remaining 10% within one (1) hour of the event.	10% 0%
Notify customers at end of unscheduled major events.	5.2 - 5	Notify customers of unscheduled major events within one (1) hour of end of the event 90% of the time. Remaining 10% within two (2) hours of the status change.	10% 0%
Provide customer with status updates.	5.2 - 6	Provide outage, test or event status updates within one (1) hour of status change 90% of the time. Remaining 10% within two (2) hours of the status change.	10% 0%
Provide customer with status updates.	5.2 - 7	Provide outage, test or event status updates within three (3) hours 90% of the time when no change has occurred.	10%

Performance Work Statement

TECHNICAL EXHIBIT 1

PERFORMANCE REQUIREMENTS SUMMARY

<u>Required Service</u>	<u>Standard Number</u>	<u>Standard</u>	<u>Maximum Allowable Degree of Deviation From Requirement</u>
Notify Senior Duty meteorologist (SDM) and Advanced Weather Interactive System (AWIPS) Network Control Facility (NCF) at start of unscheduled major events.	5.2 - 8	Notify SDM and AWIPS NCF of major events within 10 minutes of the event 95% of the time. Remaining 5% within 20 minutes of the event.	5% 0%
Monitor operational E-mail account for incoming messages.	5.2 - 9	Read any messages in the operational email account(s) within one (1) hour of receipt 90% of the time. Remaining 10% within two (2) hours of receipt.	10% 0%
Report chargeable complaints.	5.2 - 10	Written complaint assessment delivered to the COTR by close of business the following workday after the complaint was received 90% of the time. Remaining 10% by the close of business on the second workday after the receipt of the complaint.	10% 0%
Major complaints.	5.2 - 11	Major complaints shall not exceed one (1) per month 90% of the time	10%
Minor complaints.	5.2 - 12	Minor complaints shall not exceed three (3) per week 95% of the time	5%
Diagnose telecommunication errors and initiate corrective action.	5.2.1 - 1	Diagnose and initiate telecommunication corrective action within 15 minutes of error notification 95% of the time. Remaining 5% within one (1) hour of error notification.	5% 0%
Diagnose network errors and initiate corrective action.	5.2.1 - 2	Diagnose and initiate network failure corrective action within 15 minutes of error notification 95% of the time. Remaining 5% within one (1) hour of error notification.	5% 0%

Performance Work Statement

TECHNICAL EXHIBIT 1

PERFORMANCE REQUIREMENTS SUMMARY

<u>Required Service</u>	<u>Standard Number</u>	<u>Standard</u>	<u>Maximum Allowable Degree of Deviation From Requirement</u>
Diagnose data errors and initiate corrective action.	5.2.1 - 3	Research, diagnose cause and validity of data problems, and initiate response and corrective action within 15 minutes of error notification 95% of the time. Remaining 5% within one (1) hour of error notification.	5% 0%
Correct unknown queue identifier errors.	5.2.1 - 4	Review 100% of the unknown queue once an hour 98% of the time. Correct at least 20% of product identifier errors in the unknown queue within one (1) hour of receipt 75% of the time. Remaining 25% within two (2) hours of data receipt.	2% 25% 0%
Diagnose system errors and initiate recovery steps.	5.2.2 - 1	Diagnose and initiate recovery steps within 15 minutes of any system (to include software, hardware or network) failure indication 95% of the time. Remaining 5% within one (1) hour of failure indication.	5% 0%
Open manual trouble tickets.	5.2.3 - 1	Manual trouble tickets opened within one (1) hour of error notification. 95% of time. Remaining 5% opened within two (2) hours of error notification	5% 0%
Close trouble tickets.	5.2.3 - 2	All trouble tickets closed within one (1) hour of site restoration notification 95% of time. Remaining 5% within two (2) hours of restoration notification.	5% 0%
Diagnose priority 1 and 2 failures and initiate notification.	5.2.3 - 3	Diagnose priority 1 and 2 failures and initiate notification within one (1) hour 95% of the time. Remaining 5% within two (2) hours of opening the trouble ticket.	5% 0%
Clear priority 3 trouble tickets.	5.2.3 - 4	Diagnose priority 3 failures and initiate corrective action for site within one (1) hour 90% of the time. Remaining 10% within two (2) hours of opening the trouble ticket. Clear 30% of priority 3 trouble tickets in	10% 0%

Performance Work Statement

TECHNICAL EXHIBIT 1

PERFORMANCE REQUIREMENTS SUMMARY

<u>Required Service</u>	<u>Standard Number</u>	<u>Standard</u>	<u>Maximum Allowable Degree of Deviation From Requirement</u>
		house.	70%
Analyze, design, develop and implement changes and upgrades to web page(s).	5.2.3.1- 1	Web Page operational 98% of time	2%
Monitor web page(s) for postings.	5.2.3.1- 2	Web page checked every two (2) hours to ensure trouble ticket information is posting 100% of time. Diagnose posting failures and initiate corrective action within fifteen (15) minutes of error detection 90% of time. Remaining 10% within one (1) hour of error detection.	0% 10% 0%
Validate system availability	5.2.3.1 - 3	Validate availability of all internal AOMC systems to include hardware, software and applications once per shift 100% of time. Diagnose availability failures and initiate corrective action within fifteen (15) minutes of error detection 90% of time. Remaining 10% within one (1) hour of error detection.	0% 10% 0%
Validate database availability	5.2.3.1 - 4	Validate availability of the Lotus Notes, Domino and Notrix databases once per shift 100% of time. Diagnose availability failures and initiate corrective action within fifteen (15) minutes of error detection 90% of time. Remaining 10% within one (1) hour of error detection.	0% 10% 0%
Perform system administration.	5.2.3.1 - 5	Backup systems available or can be made available whenever the primary system fails 100% of time.	0%
Monitor end-to-end data flow on Centralized Automated Data Acquisition System (CADAS).	5.2.4 - 1	Check CADAS hourly for product production 96% of the time.	4%

Performance Work Statement

TECHNICAL EXHIBIT 1

PERFORMANCE REQUIREMENTS SUMMARY

<u>Required Service</u>	<u>Standard Number</u>	<u>Standard</u>	<u>Maximum Allowable Degree of Deviation From Requirement</u>
Diagnose CADAS problems and initiate corrective action.	5.2.4 - 2	Diagnose CADAS errors and initiate corrective action within thirty (30) minutes of error notification 95% of the time. Remaining 5% within two (2) hours of error notification.	5% 0%
Send STAR4 message.	5.2.4 - 3	STAR4 site outage message not later than 1800 Zulu 95% of the time. Remaining 5% within two (2) hours of 1800 Zulu.	5% 0%
Monitor end-to-end data flow on the RADAR Multicast System (site monitoring). Diagnose and take corrective action.	5.2.4 - 4	Diagnose RADAR Multicast System site outages and take corrective action within 10 minutes of notification 90% of the time. Remaining 10% within 30 minutes of notification.	10% 0%
Monitor end-to-end data flow on the RADAR Multicast System (receiver monitoring). Diagnose and initiate corrective action.	5.2.4 - 5	Diagnose RADAR Multicast System failures and initiate corrective action within five (5) minutes of notification 95% of the time. Remaining 5% within 15 minutes of notification.	5% 0%
Monitor end-to-end data flow on the National Oceanic and Atmospheric Administration (NOAA) Weather Wire System (NWWS). Initiate corrective action.	5.2.4 - 6	Initiate NWWS System corrective action to a site not on satellite uplink within 30 minutes of notification 90% of the time. Remaining 10% within one (1) hour of notification.	10% 0%
Monitor end-to-end data flow on the GMDSS System. Diagnose and take corrective action.	5.2.4 - 7	Diagnose GMDSS System monitor failures and take corrective action within one (1) hour of the monitor failure 90% of the time. Remaining 10% within two (2) hours of the monitor failure.	10% 0%

Performance Work Statement

TECHNICAL EXHIBIT 1

PERFORMANCE REQUIREMENTS SUMMARY

<u>Required Service</u>	<u>Standard Number</u>	<u>Standard</u>	<u>Maximum Allowable Degree of Deviation From Requirement</u>
Monitor end-to-end data flow on the GMDSS System. Diagnose and initiate recovery action.	5.2.4 - 8	Diagnose GMDSS data dissemination failures and initiate recovery within 15 minutes of the failure 90% of the time. Remaining 10% within one (1) hour of the failure.	10% 0%
Monitor facility systems. Monitor facility through alarms, telephone calls and observations. Notify personnel, take system action, evacuate personnel and confirm evacuation. Ensure the operational area is secure.	5.2.4 - 9	Initiate action for facilities alarms within five (5) minutes 100% of the time.	0%
Diagnose World Area Forecast System (WAFS) broadcast errors and take corrective action.	5.2.4 - 10	Diagnose WAFS broadcast errors and take corrective action within one (1) hour of notification 90% of the time. Remaining 10% within two (2) hours of notification.	10% 0%
Monitor and ensure RADAR images are posted to regional headquarters servers.	5.2.4 - 11	Diagnose RADAR Image posting outages and take corrective action within 15 minutes of notification 90% of the time. Remaining 10% within one (1) hour of notification.	10% 0%
Initiate backup of ANBURS.	5.2.4 - 12	Initiate the ANBURS backup system within 10 minutes of notification of service interruption with the FAA Weather Message Switching Center Replacement (WMSCR) system or the AWIPS NCF 95% of the time. Initiate within 20 minutes of notification the remaining 5% of the time.	5% 0%
Operate the contingency back-up site during catastrophic event.	5.2.5 - 1	Backup site fully operational within six (6) hours of a catastrophic event.	0%

Performance Work Statement

TECHNICAL EXHIBIT 1

PERFORMANCE REQUIREMENTS SUMMARY

<u>Required Service</u>	<u>Standard Number</u>	<u>Standard</u>	<u>Maximum Allowable Degree of Deviation From Requirement</u>
Monitor the contingency back-up site while it is not in operational use.	5.2.5 - 2	While backup site is not being used operationally, diagnose and initiate recovery steps within one (1) hour of any system (to include software, hardware or network) failure indication 95% of the time. Remaining 5% within three (3) hours of failure indication.	5% 0%
Assess government technological enhancement proposals.	5.2.6 - 1	Written assessments to COTR within five (5) workdays of receipt 90% of the time. Remaining 10% within 10 workdays.	10% 0%
Implement technological or operational enhancements.	5.2.6 - 2	Government approved technological/operational enhancements implemented within approved assessment milestones.	0%

Performance Work Statement

TECHNICAL EXHIBIT 2

REQUIRED REPORTS

<u>Reference</u>	<u>Title</u>	<u>Frequency</u>	<u>Suspense</u>	<u>Deliver To:</u>
1.2	Phase-In Plan	Once	30 Calendar Days After Award	Contracting Officer
1.3.2	Project Manager and Alternate Designation	Once	Phase-In Start Date	Contracting Officer
5.2	Number of Connected Calls	Monthly	First Monday	Contracting Officer Technical Representative (COTR)
5.2	Number of “No Connect” Calls	Monthly	First Monday	COTR
5.2	Number of Calls “Disconnected”	Monthly	First Monday	COTR
5.2	Number of Calls flagged as “failed”	Monthly	First Monday	COTR
5.2	Number of Calls “Pickup”	Monthly	First Monday	COTR
5.2	Number of Calls < 2400 baud	Monthly	First Monday	COTR
5.2	Number of Calls = 2400 baud	Monthly	First Monday	COTR
5.2	Number of Calls > 2400 baud	Monthly	First Monday	COTR
5.2	Trouble Ticket Report	Daily	7:00 AM EST	COTR
5.2	Software Status Report	Monthly	First Monday	COTR
5.2.1	12 Hour Throughput Circuit Analysis Report	Monthly	First Monday	COTR

Procurement Sensitive

TE-2-1

Rev. August 7, 2002

Performance Work Statement

TECHNICAL EXHIBIT 2

REQUIRED REPORTS

<u>Reference</u>	<u>Title</u>	<u>Frequency</u>	<u>Suspense</u>	<u>Deliver To:</u>
5.2.3	Time Check Call Report	Monthly	First Monday	COTR
5.2.3	National Weather Service Telecommunication Gateway (NWSTG) - GSC Problem Report	Monthly	First Monday	COTR
5.2.3	Very Small Aperture Terminal (VSAT) Station Outage Report	Monthly	First Monday	VSAT Administrator
5.2.3	Average Number of Trouble Tickets per Site	Monthly	First Monday	COTR
5.2.3	Number of Trouble Tickets by Priority	Monthly	First Monday	COTR
5.2.3	Number of Trouble Tickets by Hour	Monthly	First Monday	COTR
5.2.3	Number of Trouble Tickets by Day	Monthly	First Monday	COTR
5.2.3	Total Number of Trouble Ticket "Events" by Region	Monthly	First Monday	COTR
5.2.3	Total Number of Trouble Ticket "Categories" by Region	Monthly	First Monday	COTR
5.2.3	Total Number of Trouble Ticket "Categories" by Region/Monthly	Monthly	First Monday	COTR
5.2.3	Number of Trouble Ticket "Categories" by Region/Priority	Monthly	First Monday	COTR
5.2.3	Number of Processed Meteorological Aviation Reports (METAR) by Day	Monthly	First Monday	COTR
5.2.3	Number of Processed METARS by Day/Monthly	Monthly	First Monday	COTR

Procurement Sensitive

TE-2-2

Rev. August 7, 2002

Performance Work Statement

TECHNICAL EXHIBIT 2

REQUIRED REPORTS

<u>Reference</u>	<u>Title</u>	<u>Frequency</u>	<u>Suspense</u>	<u>Deliver To:</u>
5.2.3	Number of Processed METARS by Hour	Monthly	First Monday	COTR
5.2.3	Number of Calls by Day and workstation	Monthly	First Monday	COTR
5.2.3	Number of Calls by Hour	Monthly	First Monday	COTR
5.2.3	Number of Hot Line Calls by Day of the Week	Monthly	First Monday	COTR
5.2.3	Number of Missed Observation by Agency	Monthly	First Monday	COTR
5.2.3	Percentage of Missed METARS - Federal Aviation Administration (FAA)	Monthly	First Monday	COTR
5.2.3	Percentage of Missed METARS - National Weather Service (NWS)	Monthly	First Monday	COTR
5.2.3	Percentage of Missed METARS by Center (30-day)	Monthly	First Monday	COTR
5.2.3	Number of Return To Service (RTS) Reports and Events by Day	Monthly	First Monday	COTR
5.2.3	Return to Service (RTS) Events versus RTS Reports by Region	Monthly	First Monday	COTR
5.2.3	RTS Events versus RTS Reports by Day	Monthly	First Monday	COTR
5.2.3	Number of Exceeded RTS Reports by Day	Monthly	First Monday	COTR
5.2.3	Number of Exceeded RTS Reports by Service Level	Monthly	First Monday	COTR

Procurement Sensitive

TE-2-3

Rev. August 7, 2002

Performance Work Statement

TECHNICAL EXHIBIT 2

REQUIRED REPORTS

<u>Reference</u>	<u>Title</u>	<u>Frequency</u>	<u>Suspense</u>	<u>Deliver To:</u>
5.2.3	Number of Exceeded RTS Reports by Service Level	Monthly	First Monday	COTR
5.2.3	Number of Exceeded RTS Reports by Priority	Monthly	First Monday	COTR
5.2.3	Number of Exceeded RTS Reports by NWS Region	Monthly	First Monday	COTR
5.2.3	Automated Surface Observing System (ASOS) Listing of All Remote Access Phone Lines	Monthly	First Monday	COTR
5.2.3	ASOS Configuration Control Board Performance Report	Quarterly	First Monday	COTR
5.2.3	Next Generation Runway Visual Range Operational Status	As required (No more than Monthly)	Within five (5) workdays of receipt of request	COTR
5.2.4	World Area Forecast System Report	Daily	7:00 AM EST	COTR
5.2.6	Technological Enhancement Assessment	As Required	Within five (5) workdays of receipt of request	COTR

Procurement Sensitive

TE-2-4

Rev. August 7, 2002

Performance Work Statement

TECHNICAL EXHIBIT 3

GOVERNMENT FURNISHED EQUIPMENT, HARDWARE, SOFTWARE, NETWORKS AND CIRCUITS

Note: Data contained within this exhibit is current as of the solicitation date. Hardware, software, networks and circuits change regularly based on customer needs.

Hardware:

A. Processors, Peripherals, and DASD

<u>Brand</u>	<u>Quantity</u>
IBM 9672	3
Hardware Management Consoles	3
IBM RS6000 servers	52
IBM 3174 console controller	4
3270 Consoles	17
IBM 3290 2-4 Panel Consoles	4
IBM 4245 Printer	1
Hewlett Packard (HP) LaserJet Printer	2
Storage Tek 4480 Tape Drive	1
CD 9000 ESCON Switch	1
Data Switch 1800 Channel Switch	1
IBM 9394 Disk Controllers	4
Shiva LANrover	2
AIX RAID	8
ChronoLog Digital Clock/Timer	2
Dell Servers	7
AOMC Workstations	12
Load Balancer/Local Director	2

Performance Work Statement

TECHNICAL EXHIBIT 3

GOVERNMENT FURNISHED EQUIPMENT, HARDWARE, SOFTWARE, NETWORKS AND CIRCUITS

B. Communication Processors, Switches and Hubs

<u>Brand</u>	<u>Quantity</u>
Concurrent Computer Corp. FEP	7
- Consoles	7
AMDAHL Front End Processor (FEP)	2
- Consoles	2
Bolt Beranek and Newman Packet Switch	4
CISCO PIX firewall	8
CISCO router	8
CISCO FDDI concentrator	4
GCOM Server	2
DataSwitch Universe Matrix Switch	1
Satellite Cabinets	6
SUN Workstation1	1
Paragon KVM Switch	2
HUBS	12
Switches	9
Fiber Multiplexer (MUX)	1
LightSpan MUX	1

C. Communication/Data Termination Equipment

<u>Brand</u>	<u>Quantity</u>
LARSCOM	5
Verilink	5

Performance Work Statement

TECHNICAL EXHIBIT 3

GOVERNMENT FURNISHED EQUIPMENT, HARDWARE, SOFTWARE, NETWORKS AND CIRCUITS

<u>Brand</u>	<u>Quantity</u>
Paradyne	15
ADTRAN	12
Kentrox	2
CODEX	25
Datatel	1
Memotec	5
Fore Systems	1
Multitech	2
Racal	2
US Robotics	1
Lucent	2
Universal Data Systems	12
Telco Systems	10
General Datacom	4
MICRON	1
AT&T Dataphone	1

D. Communication Monitoring Tools

<u>Brand</u>	<u>Quantity</u>
NetView Clients	4
Digitech WAN 9000	3
Simon 5 Line Monitor	1
Data Communication Test Instrument (DTI)	2

Performance Work Statement

TECHNICAL EXHIBIT 3

GOVERNMENT FURNISHED EQUIPMENT, HARDWARE, SOFTWARE, NETWORKS AND CIRCUITS

<u>Brand</u>	<u>Quantity</u>
Digitech 500	2
Firebird 500	2
WebPage Displays	8
Switchable Consoles	3
CCC monitors	2

E. Processors

<u>Special System</u>	<u>Brand</u>	<u>Quantity</u>
EMWIN/IWINs	Personal Computer	15
National Data Buoy Center (NDBC)	IBM RS6000	2
Hydrological Prediction Center (HADS)	Hewlett Packard	3
Centralized Automated Data Acquisition System (CADAS)	Dell 2550 Server	2
- CADAS Modems	TBD	64
- MUX	Cyclades	8
National Center of Environmental Prediction (NCEP) Communication Servers	Personal Computer	2
NCEP Backup Servers	IBM RS6000	2
Marta Fax	Personal Computer	2
NWSSpot	IBM RS6000	2
Global Maritime Distress and Safety System (GMDSS)	Personal Computer	2
National Oceanic and Atmospheric Administration (NOAA) Weather Wire	Personal Computer	3

Performance Work Statement

TECHNICAL EXHIBIT 3

GOVERNMENT FURNISHED EQUIPMENT, HARDWARE, SOFTWARE, NETWORKS AND CIRCUITS

<u>Special System</u>	<u>Brand</u>	<u>Quantity</u>
Service (NWWS)		
Alphanumeric Backup Replacement System (ANBURS)	Personal Computer	1
Radar Multicast Server	IBM RS6000	2
SiteScan	Personal Computer	1
ADAS Backup System (ABACUS)	Personal Computer	1
World Area Forecast System (WAFS)	Personal Computer	2
Advanced Weather Interactive Processing System (AWIPS) D2D Workstation	Hewlett Packard	1
AOMC Background System	Personal Computer	2
AOMC One Time Download (OTD)	Personal Computer	1

Performance Work Statement

TECHNICAL EXHIBIT 3

GOVERNMENT FURNISHED EQUIPMENT, HARDWARE, SOFTWARE, NETWORKS AND CIRCUITS

F. Servers

<u>System Name</u>	<u>Console</u>	<u>Backup</u>	<u>Function</u>	<u>Type</u>	<u>Model</u>	<u>Type</u>	<u>Serial No.</u>	<u>O/S Level</u>	<u>System Name</u>
ftpgate.nws.noaa.gov			Cluster Address						tgftp
gsftpa	O Low	internal	File Transfer Protocol (FTP) Statistics Server	Netfinity	5500	8660-11U	23A9939	-	gsftpa
gssla	O Low	internal	HTTP Statistics Server	Netfinity	5500	8660-11U	23A5748	-	gssla
ncf1	KVM	A-tgsv1	Network Control Facility (NCF) High Speed Interface - Primary	RS/6000	43P	7043-140	10-35271	4.3.2	ncf1
ncf2	KVM	B-tgsv1	NCF High Speed Interface - Secondary	RS/6000	43P	7043-140	10-35272	4.3.3	ncf2
netview	J Low	B-external tape	Netview Server / Display	RS/6000	43P	7043-140	10-91426	4.3.2	netview
nidserva	KVM	A-shared tape	Next Generation Weather Radar (NEXRAD) Information Dissemination Service (NIDS) Radar Multicast Server - Primary	RS/6000	F50	7025-F50	10-36913	4.3.3	nidserva
nidservb	KVM	B-shared tape	NIDS Radar Multicast Server - Standby	RS/6000	F50	7025-F50	10-36912	4.3.3	nidservb
nidsrcva	KVM	A-tgsv11	NIDS Radar Ingest	RS/6000	B50	7046-B50	10-B804D	4.3.3	nidsrcva

Procurement Sensitive

TE-3-6

Rev. August 7, 2002

Performance Work Statement

TECHNICAL EXHIBIT 3

GOVERNMENT FURNISHED EQUIPMENT, HARDWARE, SOFTWARE, NETWORKS AND CIRCUITS

<u>System Name</u>	<u>Console</u>	<u>Backup</u>	<u>Function</u>	<u>Type</u>	<u>Model</u>	<u>Type</u>	<u>Serial No.</u>	<u>O/S Level</u>	<u>System Name</u>
nidsrcvb	KVM	B-tgsv11	NIDS Radar Ingest	RS/6000	B50	7046-B50	10-C873D	4.3.3	nidsrcvb
pftpgate.nws.noaa.gov			Cluster Address						tgftp
ptgftp.nws.noaa.gov			Cluster Address						ptgftp
telgate.nws.noaa.gov			Cluster Address						telgate
tgftp.nws.noaa.gov			Cluster Address						tgftp
tgsv01	KVM	A-internal	FTP Server - Interim	RS/6000	F50	7025-F50	10-20808	4.3.2	tgsv01
tgsv02	KVM	A-internal	Sybase Server	RS/6000	F50	7025-F50	10-26753	4.3.2	tgsv02
tgsv03	KVM	B-internal	Sybase Server	RS/6000	F50	7025-F50	10-26754	4.3.2	tgsv03
tgsv04	KVM	B-internal	Sybase Server	RS/6000	6H1				tgsv04
tgsv05	KVM	B-internal	HTTP Server - www.nws.noaa.gov	RS/6000	F50	7025-F50	10-15217	4.3.2	tgsv05
tgsv06	N High	A-tgsv16	HTTP Server - Intranet	RS/6000	570	7013-570	26-50326	4.3.2	tgsv06
tgsv07	KVM	B-tgsv16	Radar LDM Server	RS/6000	43P	7043-140	10-06318	4.3.3	tgsv07
tgsv08	KVM	A-internal	Web Preprocessor	RS/6000	F50	7025-F50	10-ADFAD	4.3.2	tgsv08
tgsv10	KVM	A-internal	National Center for Environmental Prediction (NCEP) DBNet, ptgftp cluster backup	RS/6000	F50	7025-F50	10-19082	4.3.3	tgsv10
tgsv11	KVM	B-internal	NCEP DBNet, ptgftp cluster backup	RS/6000	F50	7025-F50	10-18443	4.3.3	tgsv11
tgsv12	H Low	B-tgsvdns1	LDM Receiver	RS/6000	J30	7013-J30	26-45848	4.3.2	tgsv12

Procurement Sensitive

TE-3-7

Rev. August 7, 2002

Performance Work Statement

TECHNICAL EXHIBIT 3

GOVERNMENT FURNISHED EQUIPMENT, HARDWARE, SOFTWARE, NETWORKS AND CIRCUITS

<u>System Name</u>	<u>Console</u>	<u>Backup</u>	<u>Function</u>	<u>Type</u>	<u>Model</u>	<u>Type</u>	<u>Serial No.</u>	<u>O/S Level</u>	<u>System Name</u>
tgsv13	H Low	A-tgsvdns1	telgate cluster member	RS/6000	J30	7013-J30	26-45921	4.3.3	tgsv13
tgsv14	KVM	A-tgsv21	Public Network Dispatcher - Primary	RS/6000	43P	7043-140	10-52593	4.3.3	tgsv14
tgsv15	KVM	B-tgsv21	Public Network Dispatcher - Backup	RS/6000	43P	7043-140	10-52303	4.3.3	tgsv15
tgsv16	D High	B-external tape	Test and Development	RS/6000	590	7013-590	26-55573	4.3.2	tgsv16
tgsv17	KVM	A-tgsv11	Private Network Dispatcher- Primary	RS/6000	43P	7043-140	10-91427	4.3.2	tgsv17
tgsv18	KVM	B-tgsv11	Private Network Dispatcher- Backup	RS/6000	43P	7043-140	10-91425	4.3.2	tgsv18
tgsv19	KVM	A-internal	Application Server	RS/6000	F50	7025-F50	10-42221	4.3.2	tgsv19
tgsv21	KVM	A-internal	HTTP/FTP Server, weather.noaa.gov	RS/6000	F50	7025-F50	10-20807	4.3.3	tgsv21
tgsv22	KVM	B-internal	HTTP/FTP Server, weather.noaa.gov	RS/6000	F50	7025-F50	10-18437	4.3.3	tgsv22
tgsv23	KVM	A-internal	HTTP/FTP Server, weather.noaa.gov	RS/6000	F50	7025-F50	10-25215	4.3.3	tgsv23
tgsv24	KVM	A-internal	HTTP/FTP Server, weather.noaa.gov	RS/6000	F50	7025-F50	10-46848	4.3.3	tgsv24
tgsv25	KVM	B-internal	HTTP/FTP Server,	RS/6000	F50	7025-F50	10-26754	4.3.3	tgsv25

Procurement Sensitive

TE-3-8

Rev. August 7, 2002

Performance Work Statement

TECHNICAL EXHIBIT 3

GOVERNMENT FURNISHED EQUIPMENT, HARDWARE, SOFTWARE, NETWORKS AND CIRCUITS

<u>System Name</u>	<u>Console</u>	<u>Backup</u>	<u>Function</u>	<u>Type</u>	<u>Model</u>	<u>Type</u>	<u>Serial No.</u>	<u>O/S Level</u>	<u>System Name</u>
tgsv30	KVM	A-internal	weather.noaa.gov Radar Image Generator - Primary	RS/6000	H80	7026-H80	10-FB4AD	4.3.3	tgsv30
tgsv31	KVM	B-tgsv30	Radar Image Generator - Standby	RS/6000	H80	7026-H80	10-FB4BD	4.3.3	tgsv31
tgsv32	KVM	B-internal	Conduit-2 LDM Server	RS/6000	M80	7026-M80	10-5830F	4.3.3	tgsv32
tgsv35	KVM	A-tgsvdns1	HTTP / FTP Server, www.nws.noaa.gov	RS/6000	B50	7046-B50	10-DA3AD	4.3.3	tgsv35
tgsv36	KVM	B-tgsvdns1	HTTP / FTP Server, www.nws.noaa.gov	RS/6000	B50	7046-B50	10-DA40D	4.3.3	tgsv36
tgsv37	KVM	A-tgsvdns1	HTTP / FTP Server, www.nws.noaa.gov	RS/6000	B50	7046-B50	10-DA3FD	4.3.3	tgsv37
tgsv38	KVM	A-tgsv21	Public FTP / LDM Gateway	RS/6000	B50	7046-B50	10-DC160	4.3.3	tgsv38
tgsv39	KVM	B-tgsv21	Public FTP / LDM Gateway	RS/6000	B50	7046-B50	10-DC150	4.3.3	tgsv39
tgsv40	KVM	A-switched tape	Private FTP Gateway	RS/6000	B50	7046-B50	10-B803D	4.3.3	tgsv40
tgsv41	KVM	B-switched tape	Private FTP Gateway	RS/6000	B50	7046-B50	10-C872D	4.3.3	tgsv41
tgsv42	KVM	A-	ptgftp cluster member	RS/6000	B50	7046-B50	10-1592F	4.3.3	tgsv42
tgsv43	KVM	B-	ptgftp cluster member	RS/6000	B50	7046-B50	10-1591F	4.3.3	tgsv43
tgsv44	KVM	A-switched	LDM receiver - Primary	RS/6000	B50			4.3.3	tgsv44

Performance Work Statement

TECHNICAL EXHIBIT 3

GOVERNMENT FURNISHED EQUIPMENT, HARDWARE, SOFTWARE, NETWORKS AND CIRCUITS

<u>System Name</u>	<u>Console</u>	<u>Backup</u>	<u>Function</u>	<u>Type</u>	<u>Model</u>	<u>Type</u>	<u>Serial No.</u>	<u>O/S Level</u>	<u>System Name</u>
tgsv45	KVM	tape B-switched tape	LDM receiver - Secondary	RS/6000	B50			4.3.3	tgsv45
tgsv46	KVM		SPOT - HTTP Server	RS/6000	6C1			4.3.3	tgsv46
tgsv47	KVM		SPOT - HTTP Server	RS/6000	6C1			4.3.3	tgsv47
tgsv48	KVM		telgate/tgweb	RS/6000	B50			4.3.3	tgsv48
tgsv49	KVM		telgate/tgweb	RS/6000	B50			4.3.3	tgsv49
tgsv50	KVM		Radar LDM Server	RS/6000	H50			4.3.3	tgsv50
tgsv51	KVM		Radar LDM Server	RS/6000	H50			4.3.3	tgsv51
tgsvafs1	KVM	B-internal	Andrews File System (AFS) File Server	RS/6000	H50	7026-H50	10-02886	4.3.2	tgsvafs1
tgsvafs2	KVM	A-internal	AFS File Server	RS/6000	H50	7026-H50	10-02885	4.3.2	tgsvafs2
tgsvafs3	KVM	B-tgsvafs4	AFS File Server	RS/6000	H70	7026-H70	10-1365F	4.3.3	tgsvafs3
tgsvafs4	KVM	A-internal	AFS File Server	RS/6000	H70	7026-H70	10-11B8F	4.3.3	tgsvafs4
tgsvtsm1			Tape Backup Server	RS/6000	H50			4.3.3	tgsvtsm1
tgsvdns1	KVM	A-external tape	Name Server	RS/6000	E30	7024-E30	26-04396	4.3.3	tgsvdns1
tgsvdns2	KVM	B-tgsvdns1	Name Server	RS/6000	E30	7024-E30	26-04398	4.3.3	tgsvdns2
tgsvnt1	B High	1.2	NT User Station	IBM PC	300			NT 4.0	tgsvnt1
tgsvnt2	B High	1.1	NT User Station	IBM PC	300			NT	tgsvnt1

Procurement Sensitive

TE-3-10

Rev. August 7, 2002

Performance Work Statement

TECHNICAL EXHIBIT 3

GOVERNMENT FURNISHED EQUIPMENT, HARDWARE, SOFTWARE, NETWORKS AND CIRCUITS

<u>System Name</u>	<u>Console</u>	<u>Backup</u>	<u>Function</u>	<u>Type</u>	<u>Model</u>	<u>Type</u>	<u>Serial No.</u>	<u>O/S Level</u>	<u>System Name</u>
								4.0	
tgsvpr1			HP 8000N Printer	HP					tgsvpr1
weather.noaa.gov			Cluster Address						weather.noaa.gov
www.nws.noaa.gov			Cluster Address						www.nws.noaa.gov
xlator		internal	HTTP Translation Server	Netfinity	5500	8660-11U	23A9174	NT 4.0	xlator

Performance Work Statement

TECHNICAL EXHIBIT 3

GOVERNMENT FURNISHED EQUIPMENT, HARDWARE, SOFTWARE, NETWORKS AND CIRCUITS

Software:

A. Operational Virtual Machines (running on IBM 9672)

AOMC3	Build ASOS station report files
CBAT	Application virtual machine that manipulates data and builds bulletins
CLSRV	Transfer data from IBM 9672 to SYBASE system
CLSRV2	Transfer data from IBM 9672 to SYBASE system
CMON	Application virtual machine that manipulates data and builds bulletins
DRAT4	Application virtual machine that manipulates data and builds bulletins
FTPGRIB	Builds files containing specific data
FTPNCEP1	Performs FTP “pull” to get data from external customers
FTPNCEP2	Performs FTP “pull” to get data from external customers
FTPPROC	Breaks files “pulled” from NCEP into bulletins
FTPPROC1	Breaks files “pulled” from NCEP into bulletins
FTPRCV	Performs FTP “pull” to get data from external customers and converts files to bulletins
FTPSEND	Sends files to predetermined destinations
FTPSEND1	Sends files to predetermined destinations
FTPSEND2	Sends files to predetermined destinations
FTPSEVER	System virtual machine to support TCP/IP
FTPSTAT	Performs FTP “pull” to get data from external customers
FTPSTAT1	Performs FTP “pull” to get data from external customers
FTPTXT	Builds files containing specific data
FTPTXT2	Builds files containing specific data
GCS	System virtual machine to support data movement within the IBM 9672
MAGIC	Application virtual machine that looks up headers in the Switching Directory
MDAD	Application virtual machine the builds the master system data queue
ODBVM	Breaks bulletins into observations for data basing.

Performance Work Statement

TECHNICAL EXHIBIT 3

GOVERNMENT FURNISHED EQUIPMENT, HARDWARE, SOFTWARE, NETWORKS AND CIRCUITS

ODBVM2	Breaks bulletins into observations for data basing.
RSOCKET	Application virtual machine that ingests data from TCP/IP sockets
RSOCKET2	Application virtual machine that ingests data from TCP/IP sockets
RTMESA	System virtual machine to perform system performance monitoring
SATA	Application virtual machine that manipulates data and builds bulletins
SYSMON	Virtual machine that monitors key operational processes and give current display
TCPIP	System virtual machine to support TCP/IP
TSOCKET	Application virtual machine that supplies data for TCP/IP sockets
TSOCKET2	Application virtual machine that supplies data for TCP/IP sockets
VEQR	Key virtual machine used for data pointer checkpointing and queueing applications
VMOP1	Proprietary software to supply application logs
VMOP2	Proprietary software to supply application logs
VMOP3	Proprietary software to supply application logs
VMOP4	Proprietary software to supply application logs
VMOP5	Proprietary software to supply application logs
VMOP6	Proprietary software to supply application logs
VMOP7	Proprietary software to supply application logs
VMOP8	Proprietary software to supply application logs
VMOP9	Proprietary software to supply application logs
VMOP10	Proprietary software to supply application logs
VSESA1	System virtual machine to support miscellaneous applications
VSESA3	System virtual machine to support miscellaneous applications
VTAM	System virtual machine to support communications with external devices
XVTDOM	VTAM application virtual machine to drive X.25 lines in the AMDAHL
XVTGCS	VTAM application virtual machine to drive X.25 lines in the AMDAHL
XVTGTS	VTAM application virtual machine to drive X.25 lines in the AMDAHL
XVTISP	VTAM application virtual machine to drive X.25 lines in the AMDAHL

Performance Work Statement

TECHNICAL EXHIBIT 3

GOVERNMENT FURNISHED EQUIPMENT, HARDWARE, SOFTWARE, NETWORKS AND CIRCUITS

XVTWS1 VTAM application virtual machine to drive X.25 lines in the AMDAHL
XVTWS2 VTAM application virtual machine to drive X.25 lines in the AMDAHL

B. Standard Operational Software

VM/ESA
VSE/ESA
VTAM
WINDOWS
AIX
IBM AIX
LOTUS NOTES
LOTUS DOMINO
LINUX
Notrix Data Base
Notrix

Circuits:

A. External Circuits

<u>Customer (Line Number)</u>	<u>Speed</u>	<u>Protocol</u>
Office of Hydrology (7)	2.4Kbps	Asynchronous
Haiti (8)	75Baud	Asynchronous
Ship (16)	Dial (300bps)	Asynchronous
Ship (17)	Dial (1200bps)	Asynchronous
Ship (30)	Dial (4800bps)	Asynchronous
Tokyo (38/39/40/118/119)	64Kbps	TCP/IP (Sockets)
WAFS (42/183-187)	56Kbps	X.25 (6 PVCs)

Performance Work Statement

TECHNICAL EXHIBIT 3

GOVERNMENT FURNISHED EQUIPMENT, HARDWARE, SOFTWARE, NETWORKS AND CIRCUITS

<u>Customer (Line Number)</u>	<u>Speed</u>	<u>Protocol</u>
WAFS Alternate	T1	X.25 (6 PVCs)
Federal Aviation Administration (FAA) Leesburg MUX	56Kbps	Codex MUX
WMSCR (110)	19.2Kbps	X.25 (SVC)
Micronesia (48)	14.4Kbps	X.25 (up to 11 SVCs)
ARINC (123)	9.6Kbps	X.25 (SVC)
VIASALA (50)	19.2Kbps	X.25 (2 PVCs)
Honolulu MUX	19.2Kbps	MUX
Honolulu (125)	4.8Kbps	X.25 (SVC)
Nandi/Fiji (9)	75Baud	Asynchronous
Tsunami Center (58)	300bps	Asynchronous
SPC (59/160/161)	64Kbps	X.25 (3 PVCs)
TPC (60/162/166)	64Kbps	X.25 (3 PVCs)
AWC (67/164/165)	128Kbps	X.25 (3 PVCs)
Public Products Service (62)	9.6Kbps	Asynchronous
Domestic Data Service (73)	9.6Kbps	Asynchronous
International Data Svc (71)	9.6Kbps	Asynchronous
Office of Naval Intelligence (97)	1.2Kbps	Asynchronous
Wallops Island (77)	9.6Kbps	X.25 (SVC)
Dial Receive (96)	1200bps	Asynchronous
Dial Receive (99)	2400bps	Asynchronous
NADIN FAA (102)	2.4Kbps	ADCCP
Canada	64Kbps	TCP/IP

Performance Work Statement

TECHNICAL EXHIBIT 3

GOVERNMENT FURNISHED EQUIPMENT, HARDWARE, SOFTWARE, NETWORKS AND CIRCUITS

<u>Customer (Line Number)</u>	<u>Speed</u>	<u>Protocol</u>
WMO (130/131/103)	64Kbps	X.25 (2 PVC, Tunnel)
Bracknell	64Kbps	TCP/IP
WMO (120/121/114)	64Kbps	X.25 (2 PVC, Tunnel)
AFWA	DATMS-U Network Speed	TCP/IP Socket
Saudi Arabia	64Kbps	TCP/IP
WMO (115/163)	64Kbps	X.25 (2 PVC, Tunnel)
Pretoria	64Kbps	TCP/IP
WMO (66)	64Kbps	X.25 (PVC, Tunnel)
NDBC	9.6Kbps	X.25 (SVC)
Brazil	64Kbps	X.25 (2 PVC)
Argentina	64Kbps	X.25 (2 PVC)
Air Resources Lab	19.2Kbps	X.25 (PVC)
Alaska	19.2Kbps	X.25 (2 PVC, Tunnel on Alaska Regional)
Weather Information Message System (WIMS)	9.6Kbps	X.25 (SVC)

B. External Circuits

<u>Customer (Line Number)</u>	<u>Speed</u>	<u>Protocol</u>
NCF/BBN (51/179-182)	64Kbps	X.25 (6 PVCs)
NCF/BBN (55/178)	256Kbps	X.25 (2 PVCs)
BBN/AMDAHL (51/179-182)	64Kbps	X.25 (5 PVCs)
BBN/AMDAHL (55/178)	256Kbps	X.25 (2 PVCs)
CCC1/CCC3 (10)	19.2Kbps	X.25 (PVC)

Performance Work Statement

TECHNICAL EXHIBIT 3

GOVERNMENT FURNISHED EQUIPMENT, HARDWARE, SOFTWARE, NETWORKS AND CIRCUITS

<u>Customer (Line Number)</u>	<u>Speed</u>	<u>Protocol</u>
AMDAHL/CCC4 (122)	64Kbps	X.25 (PVC)
AMDAHL/CCC3 (48)	19.2Kbps	X.25 (PVC)
AMDAHL/CCC3 (127)	19.2Kbps	X.25 (PVC)
CCC3/NDBC1	19.2Kbps	X.25 (2 SVCs)
CCC3/NDBC2	19.2Kbps	X.25 (2 SVCs)
AMDAHL/NCEP1 (88)	64Kbps	X.25 (PVC)
AMDAHL/NCEP2 (167)	64Kbps	X.25 (PVC)
CCC1/GMDSS Server (14)	9.6Kbps	Asynchronous
AMDAHL/CodexPAD (45)	19.2Kbps	X.25 (PVC)
CodexPAD/GMDSS Server	19.2Kbps	Asynchronous
CCC1/ABACUS (95)	1.2Kbps	Asynchronous
CADAS/CCC1 (57)	1.2Kbps	Asynchronous
Calypso Receive	19.2Kbps	Asynchronous
WAFS Dish	38.4Kbps	X.25 (6 PVCs)
Capsat Receive	19.2Kbps	Asynchronous

C. Circuits for Access Only

<u>Customer (Line Number)</u>	<u>Speed</u>	<u>Protocol</u>
Server Access Service (SAS) 1*	T1	TCP/IP
SAS2 MUX	T1	TCP/IP
SAS3	T1	TCP/IP
SAS4	T1	TCP/IP
SAS5	T1	TCP/IP

Performance Work Statement

TECHNICAL EXHIBIT 3

GOVERNMENT FURNISHED EQUIPMENT, HARDWARE, SOFTWARE, NETWORKS AND CIRCUITS

<u>Customer (Line Number)</u>	<u>Speed</u>	<u>Protocol</u>
Eastern Region Headquarters	T1	TCP/IP
Central Region Headquarters	T1	TCP/IP
Southern Region Headquarters	T1	TCP/IP
Southern Region Headquarters	T1	TCP/IP
Western Region Headquarters	T1	TCP/IP
Alaska Region Headquarters	T1	TCP/IP
Pacific Region Headquarters	T1	TCP/IP
Johnson Space Flight Center	256Kbps	TCP/IP
NASA Goddard	T1	TCP/IP
NCDC	T1	TCP/IP

*Server Access Service - subscribers that have brought in T1 circuits to access NWS servers.

D. Radar Broadcast Circuits

<u>Customer (Line Number)</u>	<u>Speed</u>	<u>Protocol</u>
Radar Products Service (RPS) 1*	T1	TCP/IP
RPS2	T1	TCP/IP
RPS3	T1	TCP/IP
RPS4	T1	TCP/IP
RPS5	T1	TCP/IP
RPS6	T1	TCP/IP
RPS7	T1	TCP/IP
RPS8	T1	TCP/IP
RPS9	T1 (Frame Relay)	TCP/IP

Performance Work Statement

TECHNICAL EXHIBIT 3

GOVERNMENT FURNISHED EQUIPMENT, HARDWARE, SOFTWARE, NETWORKS AND CIRCUITS

<u>Customer (Line Number)</u>	<u>Speed</u>	<u>Protocol</u>
National Climatic Data Center (NCDC)	T1	TCP/IP

*Radar Products Service - subscribers that have installed T1 circuits to receive the Radar Multicast (TE-11)

E. Special Connections

<u>Customer (Line Number)</u>	<u>Speed</u>	<u>Protocol</u>
FAA (FBWTG)	T1	TCP/IP
FAA (Atlantic City)	T1	TCP/IP
NWWS (Chantilly)	56Kbps	TCP/IP
NWWS (Chantilly)	56Kbps	TCP/IP
Honolulu (Pacific Star4)	56Kbps	X.25 (6 PVCs)
New Orleans (Marta)	19.2Kbps	Analog Signal
Boston (Marta)	19.2Kbps	Analog Signal
Point Reyes (Marta)	19.2Kbps	Analog Signal
Family of Services (FOS) 1*	56Kbps	Asynchronous MUX
FOS2	56Kbps	Asynchronous MUX
FOS3	56Kbps	Asynchronous MUX
FOS4	56Kbps	X.25
FOS5	56Kbps	X.25
FOS6	56Kbps	Asynchronous MUX
EMWIN	19.2Kbps	Asynchronous

Performance Work Statement

TECHNICAL EXHIBIT 3

GOVERNMENT FURNISHED EQUIPMENT, HARDWARE, SOFTWARE, NETWORKS AND CIRCUITS

*Family of Services - commercial customers that subscribe to some of the Family of Services (FOS) non-TCP/IP related dissemination systems.

F. External Network Interfaces

<u>Customer (Line Number)</u>	<u>Speed</u>	<u>Protocol</u>
NCEP	155Mbps	ATM
NCEP	155Mbps	ATM
DATMS-U (Navy)	100Mbps	Fast Ethernet Interface to ATM Cloud
National Ice Center	10Mbps	FNS (Fiber Network Service)
NESDIS	10Mbps	FNS (Fiber Network Service)
Campus Network	100Mbps	Fast Ethernet

G. Internal Network Interfaces

<u>Customer (Line Number)</u>	<u>Mask</u>	<u>Protocol</u>
Gateway FDDI	225.225.225.0	FDDI
Interior Firewall network	255.255.255.240	Fast Ethernet
Private Fast Ethernet	255.255.255.224	Fast Ethernet
BBN	255.255.255.252	Ethernet
Netview Client	255.255.255.252	Ethernet
Netview Server	255.255.255.252	Ethernet
NWWS	255.255.255.252	Ethernet
NCF	255.255.255.128	Ethernet
Radar Multicast Server	255.255.255.224	Ethernet
TOC Monitors	255.255.255.240	Ethernet
Exterior Firewall Network	255.255.255.240	Fast Ethernet

Performance Work Statement

TECHNICAL EXHIBIT 3

GOVERNMENT FURNISHED EQUIPMENT, HARDWARE, SOFTWARE, NETWORKS AND CIRCUITS

<u>Customer (Line Number)</u>	<u>Mask</u>	<u>Protocol</u>
Public Ethernet	255.255.255.0	Ethernet
AOMC	255.255.255.224	Ethernet
AWIPS Firewall	255.255.255.0	Ethernet
USCG Amver Seas	255.255.255.240	Ethernet
Public Fast Ethernet	255.255.255.224	Fast Ethernet
Open Campus Switch	255.255.255.240	Fast Ethernet
EMWIN	255.255.255.224	Fast Ethernet
CISCO Works	255.255.255.248	Ethernet

H. Operational Dial Lines

<u>Customer (Line Number)</u>	<u>Speed</u>	<u>Protocol</u>
ASOS Operations and Monitoring Center (AOMC)	Voice	800 Hotline
AOMC	28.8Kbps	Updates (2 Lines)
AOMC CronoLog Clock	Voice	Updates (1 line)
CADAS	300 bps	Data (3 lines)
SHIVA (Remote Access)	19.2Kbps	Remote Access (5 lines)
ABACUS	1200bps	Data (8 lines)
Bracknell	64Kbps	ISDN Backup
Canada	64Kbps	ISDN Backup
Alaska	19.2Kbps	Dial Backup
Honolulu	19.2Kbps	Dial Backup
Wallops Island	19.2Kbps	Dial Backup

Performance Work Statement

TECHNICAL EXHIBIT 3

GOVERNMENT FURNISHED EQUIPMENT, HARDWARE, SOFTWARE, NETWORKS AND CIRCUITS

<u>Customer (Line Number)</u>	<u>Speed</u>	<u>Protocol</u>
WMSCR	19.2Kbps	Dial Backup
NCDC	19.2Kbps	Dial Backup
EMWIN	19.2Kbps	Dial Backup
CADAS Dial Out	110/300bps	Data Ingest (37 lines)
AOMC RMM Lines	19.2Kbps	ASOS Access (12 lines)

Dissemination Systems:

National Oceanic and Atmospheric Administration Weather Wire

Radio Detection and Ranging Multicast System

NWSpot

EMWIN

IWIN

Global Maritime Distress and Safety System

World Area Forecast System

Performance Work Statement

TECHNICAL EXHIBIT 4

NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION WEATHER WIRE SYSTEM UPLINK SITES

AFC	ANCHORAGE WFO
ATWC	ALASKA TSUNAMI WARNING CENTER
BOX	BOSTON WFO
CTP	CENTRAL PENNSYLVANIA WFO
EAX	KANSAS CITY, KANSAS WFO
EQC	NATIONAL EARTHQUAKE CENTER
FFC	ATLANTA WFO
FWD	DALLAS / FT. WORTH WFO
ILN	CINCINNATI WFO
LIX	NEW ORLEANS/BATON ROUGE WFO
MPX	MINNEAPOLIS WFO
NCF	NETWORK CONTROL FACILITY
PQR	PORTLAND WFO
PTWC	PACIFIC TSUNAMI WARNING CENTER
SJU	SAN JUAN WFO
SLC	SALT LAKE CITY WFO
SPC	STORM PREDICTION CENTER
STO	SACRAMENTO WFO
TPC	TROPICAL PREDICTION CENTER WFO
TSA	TULSA WFO

Performance Work Statement

TECHNICAL EXHIBIT 5

MONITORED SYSTEMS

The following system hardware is monitored only. These systems are the responsibility of other agencies or customers for problem analysis and resolution. Service Provider responsibility is to contact the system owner and advise of any error or alarms noted.

<u>Equipment Owner</u>	<u>Hardware</u>	<u>Quantity</u>
National Center of Environmental Prediction	Communication Personal Computer	2
	IBM RS/6000 Server	2
National Data Buoy Center	IBM RS/6000 Servers	2
	Router/CSU	1
Hydrometeorological Automated Data System	Hewlett Packard Server	3
	Switch	1
CADAS Replacement systems	Dell Server	2

Performance Work Statement

TECHNICAL EXHIBIT 6

LIST OF WEATHER FORECAST OFFICES, RIVER FORECAST CENTERS, REGIONAL HEADQUARTERS AND NATIONAL CENTERS

WFO - Weather Forecast Office
RFC - River Forecast Center

10009 General Mahone Highway
Wakefield, Virginia 23888

(ABR) ABERDEEN WFO
National Weather Service
824 Brown County 14 South
Aberdeen, South Dakota 57401-9311

(ALR) SOUTHEAST RFC
National Weather Service
#4 Falcon Drive
Peachtree City, Georgia. 30269

(ABQ) ALBURQUERQUE WFO
National Weather Service
2341 Clark Carr Loop, SE
Albuquerque, New Mexico 87106

(ALY) ALBANY WFO
National Weather Service
251 Fuller Road, Suite B300
Albany, New York 12203

(ACR) ALASKA RFC
National Weather Service
6930 Sand Lake Rd.
Anchorage, Alaska 99502-1845

(AMA) AMARILLO WFO
National Weather Service
1900 English Road
Amarillo, Texas 79107

(AFC) ANCHORAGE WFO
National Weather Service
6930 Sand Lake Rd.
Anchorage, Alaska 99502-1845

(APX) North Central Lower Michigan WFO
National Weather Service
8800 Passenheim Hill Rd.
Gaylord, Michigan 49735-9454

(AFG) FAIRBANKS WFO
National Weather Service
IARC bldg. 930 North Koyuk Dr. Room 355
Fairbanks, Alaska 99775-7345

(ARX) LA CROSSE WFO
National Weather Service
N 2788 County Road FA
La Crosse, Wisconsin 54601-3029

(AJK) JUNEAU WFO
National Weather Service
8500 Mendenhall Loop Road
Juneau, Alaska 99801

(BCQ) Central Region Headquarters RHQ
601 East 12th Street RM. 1836
Kansas City, Missouri 64106

(AKQ) WAKEFIELD WFO
National Weather Service

(BGM) BINGHAMTOM WFO
32 Dawes Drive
Johnson City, New York 13790

Performance Work Statement

TECHNICAL EXHIBIT 6

LIST OF WEATHER FORECAST OFFICES, RIVER FORECAST CENTERS, REGIONAL HEADQUARTERS AND NATIONAL CENTERS

(BIS) BISMARCK WFO

National Weather Service, NOAA
2301 University Drive, Bldg. 27
Bismarck, North Dakota 58504

(BMX) BIRMINGHAM WFO

National Weather Service
465 Weathervane Road
Alabaster, Alabama 35007-5079

(BOI) BOISE WFO

National Weather Service
3833 S. Development Ave Building 3807
Boise Idaho 83705-5354

(BOU) BOULDER WFO

National Weather Service
325 Broadway Road
Boulder, Colorado 80303-3328

(BOX) BOSTON WFO

National Weather Service
445 Miles Standish Blvd.
Taunton, Massachusetts. 02780-1081

(BRO) BROWNSVILLE WFO

National Weather Service
20 South Vermillion Road
Brownsville, Texas 78521-5798

(BTV) BURLINGTON WFO

National Weather Service
1200 Airport Drive Burlington International
Airport

South Burlington, Vermont 05403

(BUF) BUFFALO WFO

National Weather Service
587 Aero Drive
Cheektowaga, New York 14225-1997

(BYZ) BILLINGS WFO

National Weather Service
2170 Overland Ave.
Billings Montana. 59102-6455

(CAE) COLUMBIA WFO

National Weather Service
2909 Aviation Way
West Columbia, South Carolina 29170-2102

(CAR) CARIBOU WFO

National Weather Service
810 Main St.
Caribou, Maine, 04736

(CHS) CHARLESTON WFO

National Weather Service
5777 South Aviation Avenue
Charleston, South Carolina 29406

(CLE) CLEVELAND WFO

National Weather Service
Cleveland Hopkins International Airport Federal
Facilities Building
Cleveland Ohio 44135

Performance Work Statement

TECHNICAL EXHIBIT 6

LIST OF WEATHER FORECAST OFFICES, RIVER FORECAST CENTERS, REGIONAL HEADQUARTERS AND NATIONAL CENTERS

(COMT) COMET WFO
National Weather Service
3450 Mitchell Lane
Boulder Colorado 80301

(CRP) CORPUS CHRISTI WFO
National Weather Service
300 John Pinson Drive
Corpus Christi, Texas 78406

(CTP) CENTRAL PENNSYLVANIA WFO
National Weather Service, NOAA
227 West Beaver Avenue, Suite 402
State Collage, Pennsylvania 16801-4821

(CYS) CHEYENNE WFO
National Weather Service
1301 Airport Parkway
Cheyenne, Wyoming 82001-1549

(DDC) DODGE CITY WFO
National Weather Service
104 Airport Road
Dodge City, Kansas 67801-9351

(DLH) DULUTH WFO
National Weather Service, NOAA
5027 Miller Trunk Highway, Rm. 115
Duluth, Minnesota 55811-1442

(DMX) DES MOINES WFO
National Weather Service
9607 NW Beaver Drive

Johnston, Iowa 50131-1908

(DTX) DETROIT WFO
National Weather Service
9200 White Lake Road
White Lake, Michigan 48386-1126

(DVN) QUAD CITIES WFO
National Weather Service
9050 Harrison Street
Davenport Municipal Airport
Davenport, Iowa 52806-7326

(EAX) KANSAS CITY, KANSAS WFO
National Weather Service - Pleasant Hill
1803 North 7 Highway
Pleasant Hill, Missouri 64080

(EHU) Southern Region Headquarters
National Weather Service
819 Taylor St. Rm. 10A46
Fort Worth, Texas 76102

(EKA) EUREKA WFO
National Weather Service
Woodley Island
300 Startare Drive
Eureca, California 95501-6000

(EPZ) EL PASO WFO
National Weather Service
7950 Airport Road
Santa Teresa New Mexico 88008

Performance Work Statement

TECHNICAL EXHIBIT 6

LIST OF WEATHER FORECAST OFFICES, RIVER FORECAST CENTERS, REGIONAL HEADQUARTERS AND NATIONAL CENTERS

(EWX) AUSTIN/SAN ANTONIO WFO
National Weather Service
2090 Airport Road
New Braunfels, Texas 78130

(EYW) KEY WEST WFO
National Weather Service
3535 South Roosevelt Boulevard Suite 105
Key West, Florida 33040-5234

(FFC) ATLANTA WFO
National Weather Service
#4 Falcon Drive
Peachtree City, Georgia 30269

(FGF) GRAND FORKS WFO
National Weather Service
4797 Technology Circle
Grand Forks, North Dakota 58203-0600

(FGZ) FLAGSTAFF WFO
National Weather Service
P.O. Box 16057
Bellemont Arizona 86015-6057

(FSD) SIOUX FALLS WFO
National Weather Service
26 Weather Lane
Sioux Falls South Dakota 57104-0198

(FWD) DALLAS / FT. WORTH WFO
National Weather Service, NOAA

3401 Northern Cross Boulevard
Fort Worth, Texas 76137-3610

(FWR) WEST GULF DALLAS/Ft. Worth RFC
National Weather Service, NOAA
3401 Northern Cross Boulevard
Fort Worth, Texas 76137-3610

(GGW) GLASGOW WFO
National Weather Service
101 Airport Road Valley County International
Airport
PO BOX 991
Glasgow Montana 59230-0991

(GID) HASTINGS WFO
National Weather Service, NOAA
6365 North Osborne Drive West
Hastings, Nebraska 68901-9120

(GJT) GRAND JUNCTION WFO
National Weather Service
792 Eagle Drive
Grand Junction, Colorado 81506-8646

(GLD) GOODLAND, KANSAS WFO
National Weather Service
920 Armory Road
Goodland, Kansas 67735-9273

(GRB) GREEN BAY WFO
National Weather Service
2485 South Point Road
Green Bay Wisconsin 54313-5522

Performance Work Statement

TECHNICAL EXHIBIT 6

LIST OF WEATHER FORECAST OFFICES, RIVER FORECAST CENTERS, REGIONAL HEADQUARTERS AND NATIONAL CENTERS

(GRR) GRAND RAPIDS WFO
National Weather Service
4899 South Complex S.E.
Grand Rapid, Michigan 49512-4034

(GSP) GREENVILLE/SPARTANBURG WFO
National Weather Service
1549 GSP Drive
Greer, South Carolina 29651

(GUM) TIYAN WFO
National Weather Service
Old NAS Control Tower
1775 Admiral Sherman Blvd.
Tiyon, Guam 96913

(GYX) PORTLAND WFO
National Weather Service
1 Weather Lane P.O. Box 1208
Grey, Maine 04039-1208

(HFO) HONOLULU WFO
National Weather Service
2525 Correa Road, Suite 250
Honolulu, Hawaii 96822-2219

(HGX) HOUSTON/GALVESTON WFO
National Weather Service
1620 Gill Road
Dickinson, Texas 77539

(HNX) SAN JOAQUIN VALLEY WFO

National Weather Service
900 Foggy Bottom Road
Hanford California 93230-5236

(ICT) WICHITA WFO
National Weather Service
2142 South Tyler Road
Wichita, Kansas 67209-3016

(ILM) WILMINGTON WFO
National Weather Service
2015 Gardner Drive
Wilmington, North Carolina 28405

(ILN) CINCINNATI WFO
National Weather Service
1901 South State Rd. Rt. 134
Wilmington, Ohio 45177

(ILX) CENTRAL ILLINIOS WFO
National Weather Service
1362 State Route 10
Lincoln, Illinois 62656-5417

(IND) INDIANAPOLIS WFO
National Weather Service
6900 West Hanna Avenue
Indianapolis, Indiana 46241-952

(IWX) NORTHERN INDIANA WFO
National Weather Service
7506 E850N

Performance Work Statement

TECHNICAL EXHIBIT 6

LIST OF WEATHER FORECAST OFFICES, RIVER FORECAST CENTERS, REGIONAL HEADQUARTERS AND NATIONAL CENTERS

Syracuse, Indiana 46567

(JAN) JACKSON WFO
National Weather Service
234 Weather Service Drive
Jackson, Mississippi 39208

(JAX) JACKSONVILLE WFO
National Weather Service
13701 Fang Drive
Jacksonville, Florida 32218

(JKL) JACKSON WFO
National Weather Service
1329 Airport Road
Jackson, Kentucky 41339

(KRF) KANSAS CITY, KANSAS RFC
National Weather Service - Pleasant Hill
1803 North 7 Highway
Pleasant Hill, Missouri 64080

(LBF) NORTH PLATTE WFO
National Weather Service
North Platte Regional Airport 5250 East Lee
Bird Drive
North Platte, Nebraska 69101-2473

(LCH) LAKE CHARLES WFO
National Weather Service
500 Airport Blvd, #115
Lake Charles, Louisiana 70605

(LIX) NEW ORLEANS/BATON ROUGE WFO
62300 Airport Road
Slidell, LA. 70460-5243

(LKN) ELKO WFO
National Weather Service
3720 Paradise Drive
Elko Nevada. 89801

(LMK) LOUISVILLE WFO
National Weather Service
6201 Theiler Lane
Louisville, Kentucky 40229

(LOT) CHICAGO WFO
National Weather Service
333 West University Drive
Romeoville, Illinois 60446-1804

(LOX) LOS ANGELES WFO
National Weather Service
520 N Elevar Street
Oxnard California 93030

(LSX) ST. LOUIS WFO
National Weather Service
12 Research Park Drive
St. Charles, Missouri 63304-5686

(LUB) LUBBOCK WFO
National Weather Service
2579 s Loop 289, Suite 100
Lubbock, Texas 79423-1400

(LWX) BALTIMORE, MD/WASHINGTON
D.C. WFO

Performance Work Statement

TECHNICAL EXHIBIT 6

LIST OF WEATHER FORECAST OFFICES, RIVER FORECAST CENTERS, REGIONAL HEADQUARTERS AND NATIONAL CENTERS

National Weather Service
44087 Weather Service Road
Sterling, Virginia 20166-2001

(LZK) LITTLE ROCK WFO
National Weather Service
8400 Remount Road North Little Rock Airport
North Little Rock, Arkansas 72118

(MAF) MIDLAND/ODESSA WFO
National Weather Service
2500 Challenger Drive
Midland, Texas 79706-2606

(MEG) MEMPHIS WFO
National Weather Service
7777 Walnut Grove Road Room #0M1
Memphis, Tennessee 38120

(MFL) MIAMI WFO
National Weather Service
11691 SW 17th Street
Miami, Florida 33165-2149

(MFR) MEDFORD WFO
National Weather Service
4003 Cirrus Drive
Medford Oregon 97504

(MHX) MOREHEAD CITY WFO
National Weather Service
53 Roberts Road
Newport, North Carolina 28570

(MKX) MILWAUKEE WFO
National Weather Service
N 3533 Hardscrabble Road
Dousman, Wisconsin 53118-9409

(MLB) MELBOURNE WFO
National Weather Service
421 Croton Road
Melbourne, Florida 32935

(MOB) MOBILE WFO
National Weather Service
8400 Airport Boulevard
Mobile, Alabama 36608

(MPX) MINNEAPOLIS WFO
National Weather Service, NOAA
1733 Lake Drive West
Chanhassen, Minnesota 55317

(MRX) KNOXVILLE/TRI-CITIES WFO
National Weather Service
5974 Commerce Boulevard
Morristown, Tennessee 37814

(MQT) MARQUETTE WFO
National Weather Service
112 Airport Drive South
Negaunee, Michigan 49886-9526

(MSO) MISSOULA WFO
National Weather Service
5765 Highway 10 West
Missoula, Montana 59802

Performance Work Statement

TECHNICAL EXHIBIT 6

LIST OF WEATHER FORECAST OFFICES, RIVER FORECAST CENTERS, REGIONAL HEADQUARTERS AND NATIONAL CENTERS

**(MSR) NORTH CENTRAL RFC
NOAA**

1733 Lake Drive West
Chanhassen, Minnesota. 55317

(MTR) SAN FRANCISCO BAY AREA WFO

National Weather Service
21 Grace Hopper Ave STOP 5
Monterey California 93943-5505

**(NHCR) TROPICAL PREDICTION CENTER
WFO**

National Weather Service
11691 S.W. 17th Street
Miami, Florida 33165-2149

**(NHCW) TROPICAL PREDICTION CENTER
WFO**

National Weather Service
11691 S.W. 17th Street
Miami, Florida 33165-2149

(OAX) OMAHA WFO

National Weather Service
6707 North 288 Street P.O. Box 719
Valley, Nebraska 68064-0719

(OHX) NASHVILLE WFO

National Weather Service
500 Weather Station Road
Old Hickory, Tennessee 37138-1145

(OKX) NEW YORK CITY WFO

Brookhaven National Laboratory, NOAA
175 Brookhaven Avenue, Building NWS-1
Upton, New York 11973

(ORN) LOWER MISSISSIPPI RIVER RFC

62300 Airport Road
Slidell, Louisiana 70460-5243

(OSFW) OSF WFO

National Weather Service, NOAA
University of Oklahoma
1200 Westheimer Dr. Room 138B
Norman, Oklahoma 73069

(OTX) SPOKANE WFO

National Weather Service
2601 North Rambo Road
Spokane, Washington 99224-9164

(OUN) NORMAN WFO

National Weather Service, NOAA
University of Oklahoma
1200 Westheimer Dr. Room 101
Norman, Oklahoma 73069

(PAH) WEST PADUCAH WFO

National Weather Service
8250 US Highway 60
West Paducah, Kentucky 42086-9762

(PBP) PACIFIC REGION HEADQUARTERS

National Weather Service
Grosvenor Center, Mauka Tower, 737 Bishop

Performance Work Statement

TECHNICAL EXHIBIT 6

LIST OF WEATHER FORECAST OFFICES, RIVER FORECAST CENTERS, REGIONAL HEADQUARTERS AND NATIONAL CENTERS

Street, Suite 2200
Honolulu, Hawaii 96813

(PBZ) PITTSBURGH WFO
National Weather Service, NOAA
192 Shafer Road
Moon Township, Pennsylvania 15108

(PDT) PENDLETON WFO
National Weather Service
2001 NW 56th Drive
Pendleton Oregon 97801-4532

(PHI) PHILADELPHIA WFO
National Weather Service, NOAA
732 Woodland Road
Mt. Holly, New Jersey 08060

(PIH) POCATELLO WFO
National Weather Service
1320 Beechcraft Ave.
Pocatello Idaho 83204

(PQR) PORTLAND WFO
Northeast Maywood Park, NWS
5241 NE 122nd Ave, NE, Room 115
Portland, Oregon 97230-1089

(PSR) PHOENIX WFO
National Weather Service
PAB 500 1521 N. Project Drive P.O. Box 52025
Phoenix, Arizona 85072-2025

(PTR) NORTHWEST RFC

Northeast Maywood Park, NWS
5241 NE 122ND AVE, NE, Room 115
Portland, Oregon 97230-1089

(PUB) PUEBLO WFO
National Weather Service
3 Eaton Way
Pueblo, Colorado 81001-4856

(RAH) RALEIGH/DURHAM WFO
National Weather Service
1005 Capabilty Dr., Suite 300
Raleigh, North Carlonia 27606

(REV) RENO WFO
National Weather Service
2350 Raggio Parkway
Reno, Nevada 89512-3900
(RHA) MIDDLE ATLANTIC RFC
State Collage Suite 402
227 West Beaver Avenue
State Collage, Pennsylvania 16801-4821

(RIW) RIVERTON WFO
National Weather Service
12744 West US Highway 26
Riverton, Wyoming 82501-9804

(RLX) CHARLESTON WFO
National Weather Service
400 Parkway Road
Charleston, West Virginia 25309

Performance Work Statement

TECHNICAL EXHIBIT 6

LIST OF WEATHER FORECAST OFFICES, RIVER FORECAST CENTERS, REGIONAL HEADQUARTERS AND NATIONAL CENTERS

(RNK) ROANOKE WFO
National Weather Service
VA Tech Corp. Research Center 1750 Forecast
Drive
Blackburg, Virginia 24060-6337

(RSA) SACRAMENTO RFC
California-Nevada
National Weather Service
3310 El Camino Suite 228

(SEW) SEATTLE WFO
National Weather Service
7600 Sand Point Way, NE. Building 1
Seattle, Washington 98115

(SDIF) SYSTEM DEVELOPMENT AND
INTEGRATION FACILITY
1500 PRC Drive
McLain, Virginia 22102

(SFMG) SPACE FLIGHT
METEOROLOGICAL GROUP WFO
National Weather Service
Building 30, Room 2104, Johnson Space Center
Houston, Texas 77058

(SGF) SPRINGFIELD WFO
National Weather Service
Regional Airport 5805 West Highway EE
Springfield, Missouri 65802-8400

(SGX) SAN DIEGO WFO
National Weather Service
Promontory Building 11440 W Bernardo Court
STE 230
San Diego California 92127-1643

(SHV) SHREVEPORT WFO
National Weather Service
5655 Hollywood Avenue
Shreveport, Louisiana 71109-7750

(SJT) SAN ANGELO WFO
National Weather Service
7654 Knickerbocker Road
San Angelo, Texas 76904

(SJU) SAN JUAN WFO
National Weather Service
4000 Carretera 190
Carolina, Puerto Rico 00979

(SLC) SALT LAKE CITY WFO
National Weather Service
2242 West North Temple
Salt Lake City, Utah 84116

(SPCR) STORM PREDICTION CENTER
National Centers for Environmental Prediction
Storm Prediction Center
1313 Halley Circle
Norman, Oklahoma 73069

(SPCW) STORM PREDICTION CENTER
National Centers for Environmental Prediction

Performance Work Statement

TECHNICAL EXHIBIT 6

LIST OF WEATHER FORECAST OFFICES, RIVER FORECAST CENTERS, REGIONAL HEADQUARTERS AND NATIONAL CENTERS

Storm Prediction Center
1313 Halley Circle
Norman, Oklahoma 73069

(STO) SACRAMENTO WFO
National Weather Service
3310 El Camino Room 228
Sacramento California 95821-6308

(STR) SALT LAKE CITY RFC
Colorado Basin
2242 West North Temple
Salt Lake City, Utah 84116

(TAE) TALLAHASSEE WFO
National Weather Service
Regional Airport 3300 Capital Circle, SW
Suite 227
Tallahassee, Florida 32310

(TAR) BOSTON RFC
Northeast National Weather Service
445 Miles Standish Blvd.
Taunton, Massachusetts 02780-1081

(TBW) TAMPA WFO
National Weather Service
2525 14th Avenue, S.E.
Ruskin, Florida 33570

(TFX) GREAT FALLS WFO
National Weather Service
5324 Tri-Hill Frontage Road
Great Falls, Montana 59404

(TIR) OHIO RFC
National Weather Service
1901 South State Rd. Rt. 134
Wilmington, Ohio 45177

(TOP) TOPEKA WFO
National Weather Service
1116 NE Strait Ave.
Topeka, Kansas 66616-1698

(TSA) TULSA WFO
National Weather Service
10159 East 11TH ST. Suite 300
Tulsa, Oklahoma 74128

(TUA) TULSA RFC
National Weather Service
10159 East 11st., Suite 300
Tulsa, Oklahoma 74128-3050

(TWC) TUCSON WFO
National Weather Service
520 N Park Ave. Ste 304
Tucson Arizona 85719-5035

(UNR) RAPID CITY WFO
National Weather Service
300 East Signal Drive
Rapid City, South Dakota 57701-3800

(VEF) LAS VEGAS WFO
National Weather Service

Performance Work Statement

TECHNICAL EXHIBIT 6

LIST OF WEATHER FORECAST OFFICES, RIVER FORECAST CENTERS, REGIONAL HEADQUARTERS AND NATIONAL CENTERS

7851 Industrial Road
Las Vegas, Nevada 89139

(VHW) Western Region Headquarters RHQ
NWS Western Region Headquarters Federal
Building
125 S. State Street, Room 1210
Salt Lake City, Utah 84138-110

(VRH) ALASKA REGION HEADQUARTERS
National Weather Service
222 West 7th Avenue, No. 23, Room 517
Anchorage, Alaska 99513-7575

(VUY) Eastern Region Headquarters RHQ
National Weather Forecast Office, NOAA
630 Johnson Avenue
Bohemia, New York 11716-2618

(WNAR) AVIATION WEATHER CENTER
National Weather Service
7220 N.W. 101st Terrace
Kansas City, Missouri 64153

(WNAW) AVIATION WEATHER CENTER
National Weather Service
7220 N.W. 101st Terrace
Kansas City, Missouri 64153

(WNOR) NATIONAL CENTER FOR
ENVIRONMENTAL PREDICTION RFC
National Weather Service
5200 Auth Road

Camp Spring, Maryland 20746

(WNOW) NATIONAL CENTER for
ENVIRONMENTAL PREDICTION WFO
National Weather Service
5200 Auth Road
Camp Spring, Maryland 20746

Performance Work Statement

TECHNICAL EXHIBIT 7

WEATHER FORECAST OFFICE/RIVER FORECAST CENTER SITE INFORMATION

Site ID ¹	WFO/RFC	State ²	Organization	NWWS Uplink 1	NWWS Uplink2	Radar	Radar Maintenance Responsibility
ABR	Aberdeen	SD	WFO	EAX	TSA	KABR	NWS
ABQ	Albuquerque	NM	WFO	FWD	SLC	KABX	NWS
AKQ	Wakefield	VA	WFO	CTP	BOX	KAKQ	NWS
AMA	Amarillo	TX	WFO	TSA	EAX	KAMA	NWS
MFL	Miami	FL	WFO	FFC	LIX	KAMX	NWS
APX	Gaylord	MI	WFO	MPX	ILN	KAPX	NWS
ARX	La Crosse	WI	WFO	MPX	ILN	KARX	NWS
SEW	Seattle/Tacoma	WA	WFO	PQR	STO	KATX	NWS
STO	Sacramento	CA	WFO	STO	PQR	KBBX	DOD
BGM	Binghamton	NY	WFO	CTP	BOX	KBGM	NWS
EKA	Eureka	CA	WFO	STO	PQR	KBHX	NWS
BIS	Bismarck	ND	WFO	EAX	TSA	KBIS	NWS
BYZ	Billings	MT	WFO	EAX	TSA	KBLX	NWS
BMX	Birmingham	AL	WFO	FFC	LIX	KBMX	NWS
BOX	Boston	MA	WFO	BOX	CTP	KBOX	NWS
BRO	Brownsville	TX	WFO	FWD	SLC	KBRO	NWS
BUF	Buffalo	NY	WFO	BOX	CTP	KBUF	NWS
EYW	Key West	FL	WFO	FFC	LIX	KBYX	NWS
CAE	Columbia	SC	WFO	FFC	LIX	KCAE	NWS
CAR	Caribou	ME	WFO	BOX	CTP	KCBW	NWS
BOI	Boise	ID	WFO	PQR	STO	KCBX	NWS
CTP	State College	PA	WFO	CTP	BOX	KCCX	NWS

¹ Three Letter Site Identifier

² United States Post Office Two Letter State Identifiers

Performance Work Statement

TECHNICAL EXHIBIT 7

WEATHER FORECAST OFFICE/RIVER FORECAST CENTER SITE INFORMATION

Site ID ¹	WFO/RFC	State ²	Organization	NWWS Uplink 1	NWWS Uplink2	Radar	Radar Maintenance Responsibility
CLE	Cleveland	OH	WFO	ILN	MPX	KCLE	NWS
CHS	Charleston	SC	WFO	FFC	LIX	KCLX	NWS
CRP	Corpus Christi	TX	WFO	FWD	SLC	KCRP	NWS
BTV	Burlington	VT	WFO	BOX	CTP	KCXX	NWS
CYS	Cheyenne	WY	WFO	EAX	TSA	KCYS	NWS
STO	Sacramento	CA	WFO	STO	PQR	KDAX	NWS
DDC	Dodge City	KS	WFO	TSA	EAX	KDDC	NWS
EWX	Austin/San Antonio	TX	WFO	FWD	SLC	KDFX	DOD
PHI	Mount Holly	NJ	WFO	CTP	BOX	KDIX	NWS
DLH	Duluth	MN	WFO	MPX	ILN	KDLH	NWS
DMX	Des Moines	IA	WFO	MPX	ILN	KDMX	NWS
AKQ	Wakefield	VA	WFO	CTP	BOX	KDOX	DOD
DTX	Detroit	MI	WFO	MPX	ILN	KDTX	NWS
DVN	Davenport	IA	WFO	MPX	ILN	KDVN	NWS
SJT	San Angelo	TX	WFO	FWD	SLC	KDYX	DOD
EAX	Pleasant Hill	MO	WFO	EAX	TSA	KEAX	NWS
TWC	Tucson	AZ	WFO	SLC	FWD	KEMX	NWS
ALY	Albany	NY	WFO	BOX	CTP	KENX	NWS
TAE	Tallahassee	FL	WFO	FFC	LIX	KEOX	DOD
EPZ	El Paso	TX	WFO	FWD	SLC	KEPZ	NWS
VEF	Las Vegas	NV	WFO	STO	PQR	KESX	NWS
MOB	Mobile	AL	WFO	FFC	LIX	KEVX	DOD
EWX	Austin/San Antonio	TX	WFO	FWD	SLC	KEWX	NWS
VEF	Las Vegas	NV	WFO	STO	PQR	KEYX	DOD

Performance Work Statement

TECHNICAL EXHIBIT 7

WEATHER FORECAST OFFICE/RIVER FORECAST CENTER SITE INFORMATION

Site ID ¹	WFO/RFC	State ²	Organization	NWWS Uplink 1	NWWS Uplink2	Radar	Radar Maintenance Responsibility
RNK	Blacksburg/Roanoke	VA	WFO	FFC	LIX	KFCX	NWS
OUN	Norman	OK	WFO	TSA	EAX	KFDR	DOD
ABQ	Albuquerque	NM	WFO	FWD	SLC	KFDX	DOD
FFC	Peachtree City	FL	WFO	FFC	LIX	KFFC	NWS
FSD	Sioux Falls	SD	WFO	EAX	TSA	KFSD	NWS
FGZ	Flagstaff	AZ	WFO	SLC	FWD	KFSX	NWS
BOU	Denver	CO	WFO	EAX	TSA	KFTG	NWS
FWD	Dallas/Fort Worth	TX	WFO	FWD	SLC	KFWS	NWS
GGW	Glasgow	MT	WFO	EAX	TSA	KGGW	NWS
GJT	Grand Junction	CO	WFO	SLC	FWD	KGJX	NWS
GLD	Goodland	KS	WFO	EAX	TSA	KGLD	NWS
GRB	Green Bay	WI	WFO	MPX	ILN	KGRB	NWS
FWD	Dallas/Fort Worth	TX	WFO	FWD	SLC	KGRK	DOD
GRR	Grand Rapids	MI	WFO	MPX	ILN	KGRR	NWS
GSP	Greenville/Spartanburg	SC	WFO	FFC	LIX	KGSP	NWS
JAN	Jackson	MS	WFO	LIX	FFC	KGWX	DOD
GYX	Gray/Portland	ME	WFO	BOX	CTP	KGYX	NWS
EPZ	El Paso	TX	WFO	FWD	SLC	KHDX	DOD
HGX	Houston/Galveston	TX	WFO	FWD	SLC	KHGX	NWS
HNX	Hanford	CA	WFO	STO	PQR	KHNX	NWS
PAH	Paducah	KY	WFO	ILN	MPX	KHPX	DOD
BMX	Birmingham	AL	WFO	FFC	LIX	KHTX	NWS
ICT	Wichita	KS	WFO	TSA	EAX	KICT	NWS
SLC	Salt Lake City	UT	WFO	SLC	FWD	KICX	NWS

Performance Work Statement

TECHNICAL EXHIBIT 7

WEATHER FORECAST OFFICE/RIVER FORECAST CENTER SITE INFORMATION

Site ID ¹	WFO/RFC	State ²	Organization	NWWS Uplink 1	NWWS Uplink2	Radar	Radar Maintenance Responsibility
ILN	Wilmington	OH	WFO	ILN	MPX	KILN	NWS
ILX	Lincoln	IL	WFO	MPX	ILN	KILX	NWS
IND	Indianapolis	IN	WFO	ILN	MPX	KIND	NWS
TSA	Tulsa	OK	WFO	TSA	EAX	KINX	NWS
PSR	Phoenix	AZ	WFO	SLC	FWD	KIWA	NWS
IWX	Northern Indiana	IN	WFO	ILN	MPX	KIWX	NWS
JAN	Jackson	MS	WFO	LIX	FFC	KJAN	NWS
JAX	Jacksonville	FL	WFO	FFC	LIX	KJAX	NWS
FFC	Peachtree City	FL	WFO	FFC	LIX	KJGX	DOD
JKL	Jackson	KY	WFO	ILN	MPX	KJKL	NWS
LUB	Lubbock	TX	WFO	FWD	SLC	KLBB	NWS
LCH	Lake Charles	LA	WFO	LIX	FFC	KLCH	NWS
LIX	New Orleans	LA	WFO	LIX	FFC	KLIX	NWS
LBF	North Platte	NE	WFO	EAX	TSA	KLNX	NWS
LOT	Chicago	IL	WFO	MPX	ILN	KLOT	NWS
LKN	Elko	NV	WFO	STO	PQR	KLRX	NWS
LSX	St. Louis	MO	WFO	MPX	ILN	KLSX	NWS
ILM	Wilmington	NC	WFO	FFC	LIX	KLTX	NWS
LMK	Louisville	KY	WFO	ILN	MPX	KLVB	NWS
LWX	Sterling	VA	WFO	CTP	BOX	KLWX	NWS
LZK	Little Rock	AR	WFO	LIX	FFC	KLZK	NWS
MAF	Midland/Odessa	TX	WFO	FWD	SLC	KMAF	NWS
MFR	Medford	OR	WFO	PQR	STO	KMAX	NWS
BIS	Bismarck	ND	WFO	EAX	TSA	KMBX	DOD

Performance Work Statement

TECHNICAL EXHIBIT 7

WEATHER FORECAST OFFICE/RIVER FORECAST CENTER SITE INFORMATION

Site ID ¹	WFO/RFC	State ²	Organization	NWWS Uplink 1	NWWS Uplink2	Radar	Radar Maintenance Responsibility
MHX	Moorehead City	NC	WFO	FFC	LIX	KMHX	NWS
MKX	Milwaukee	WI	WFO	MPX	ILN	KMKX	NWS
MLB	Melbourne	FL	WFO	FFC	LIX	KMLB	NWS
MOB	Mobile	AL	WFO	FFC	LIX	KMOB	NWS
MPX	Minneapolis	MN	WFO	MPX	ILN	KMPX	NWS
MQT	Marquette	MI	WFO	MPX	ILN	KMQT	NWS
MRX	Knoxville/Tri Cities	TN	WFO	LIX	FFC	KMRX	NWS
MSO	Missoula	MT	WFO	PQR	STO	KMSX	NWS
SLC	Salt Lake City	UT	WFO	SLC	FWD	KMTX	NWS
MTR	San Francisco	CA	WFO	STO	PQR	KMUX	NWS
FGF	Grand Forks	ND	WFO	MPX	ILN	KMVX	NWS
BMX	Birmingham	AL	WFO	FFC	LIX	KMXX	DOD
SGX	San Diego	CA	WFO	STO	PQR	KNKX	NWS
MEG	Memphis	TN	WFO	LIX	FFC	KNQA	NWS
OAX	Omaha	NE	WFO	EAX	TSA	KOAX	NWS
OHX	Nashville	TN	WFO	ILN	MPX	KOHX	NWS
OKX	New York City	NY	WFO	BOX	CTP	KOKX	NWS
OTX	Spokane	WA	WFO	PQR	STO	KOTX	NWS
PAH	Paducah	KY	WFO	ILN	MPX	KPAH	NWS
PBZ	Pittsburgh	PA	WFO	CTP	BOX	KPBZ	NWS
PDT	Pendleton	OR	WFO	PQR	STO	KPDT	NWS
LCH	Lake Charles	LA	WFO	LIX	FFC	KPOE	DOD
PUB	Pueblo	CO	WFO	TSA	EAX	KPUX	NWS
RAH	Raleigh/Durham	NC	WFO	FFC	LIX	KRAX	NWS

Performance Work Statement

TECHNICAL EXHIBIT 7

WEATHER FORECAST OFFICE/RIVER FORECAST CENTER SITE INFORMATION

Site ID ¹	WFO/RFC	State ²	Organization	NWWS Uplink 1	NWWS Uplink2	Radar	Radar Maintenance Responsibility
REV	Reno	NV	WFO	STO	PQR	KRGX	NWS
RIW	Riverton	WY	WFO	EAX	TSA	KRIW	NWS
RLX	Charleston	WV	WFO	ILN	MPX	KRLX	NWS
PQR	Portland	OR	WFO	PQR	STO	KRTX	NWS
PIH	Pocatello	ID	WFO	PQR	STO	KSFX	NWS
SGF	Springfield	MO	WFO	EAX	TSA	KSGF	NWS
SHV	Shreveport	LA	WFO	LIX	FFC	KSHV	NWS
SJT	San Angelo	TX	WFO	FWD	SLC	KSJT	NWS
SGX	San Diego	CA	WFO	STO	PQR	KSOX	NWS
TSA	Tulsa	OK	WFO	TSA	EAX	KSRX	NWS
TBW	Tampa Bay Area	FL	WFO	FFC	LIX	KTBW	NWS
TFX	Great Falls	MT	WFO	EAX	TSA	KTFX	NWS
TAE	Tallahassee	FL	WFO	FFC	LIX	KTLH	NWS
OUN	Norman	OK	WFO	TSA	EAX	KTLX	NWS
TOP	Topeka	KS	WFO	EAX	TSA	KTWX	NWS
BTV	Burlington	VT	WFO	BOX	CTP	KTYX	DOD
UNR	Rapid City	SD	WFO	EAX	TSA	KUDX	NWS
GID	Hastings	NE	WFO	EAX	TSA	KUEX	NWS
JAX	Jacksonville	FL	WFO	FFC	LIX	KVAX	DOD
LOX	Los Angeles	CA	WFO	STO	PQR	KVBX	DOD
OUN	Norman	OK	WFO	TSA	EAX	KVNX	DOD
LOX	Los Angeles	CA	WFO	STO	PQR	KVTX	NWS
PSR	Phoenix	AZ	WFO	SLC	FWD	KYUX	NWS
AFC	Anchorage	AK	WFO	AFC	STO, PQR	PABC	FAA

Performance Work Statement

TECHNICAL EXHIBIT 7

WEATHER FORECAST OFFICE/RIVER FORECAST CENTER SITE INFORMATION

Site ID ¹	WFO/RFC	State ²	Organization	NWWS Uplink 1	NWWS Uplink2	Radar	Radar Maintenance Responsibility
AJK	Juneau	AK	WFO	AFC	STO, PQR	PACG	FAA
AFG	Fairbanks	AK	WFO	AFC	STO, PQR	PAEC	FAA
AFC	Anchorage	AK	WFO	AFC	STO, PQR	PAHG	FAA
AFC	Anchorage	AK	WFO	AFC	STO, PQR	PAIH	FAA
AFC	Anchorage	AK	WFO	AFC	STO, PQR	PAKC	FAA
AFG	Fairbanks	AK	WFO	AFC	STO, PQR	PAPD	FAA
GUM	Tiyana	GU	WFO	STO	PQR	PGUA	NWS
HFO	Honolulu	HI	WFO	STO	PQR	PHKI	FAA
HFO	Honolulu	HI	WFO	STO	PQR	PHKM	FAA
HFO	Honolulu	HI	WFO	STO	PQR	PHMO	FAA
HFO	Honolulu	HI	WFO	STO	PQR	PHWA	FAA
SJU	San Juan	PR	WFO	SJU	FFC, LIX	TJUA	NWS
ACR	Anchorage	AK	RFC	AFC	STO, PQR		
ALR	Peachtree City	GA	RFC	FFC	LIX		
ANCF	Silver Spring	MD	NCF				
BCQ	Kansas City	MO	CRH				
COMT	Boulder	CO	WFO				
EHU	Fort Worth	TX	SRH				
FWR	Dallas/Fort Worth	TX	RFC	FWD	SLC		
KRF	Pleasant Hill	KS	RFC	EAX	TSA		
MSR	Chanhassen	MN	RFC	MPX	ILN		
NHCR	Miami	FL	NC	SPCW	NHCW		
NHCW	Miami	FL	NC	SPCW	NHCW		
NHDA	Silver Spring	MD	HQDEV				

Performance Work Statement

TECHNICAL EXHIBIT 7

WEATHER FORECAST OFFICE/RIVER FORECAST CENTER SITE INFORMATION

Site ID ¹	WFO/RFC	State ²	Organization	NWWS Uplink 1	NWWS Uplink2	Radar	Radar Maintenance Responsibility
NHDR	Silver Spring	MD	HQDEV				
NHDW	Silver Spring	MD	HQDEV				
NHOR	Silver Spring	MD	HQOPS				
NHOW	Silver Spring	MD	HQOPS	SPCW	NHCW		
NMTR	Silver Spring	MD	HQDEV				
NMTW	Silver Spring	MD	HQDEV				
NRS-6	Boulder (FSL)	CO	FSL				
NRS-7	Asheville	NC	NCDC				
NTCA	Kansas City	MO	NTC				
NTCB	Kansas City	MO	NTC				
NTCC	Kansas City	MO	NTC				
NTCD	Kansas City	MO	NTC				
ORN	Slidell	LA	RFC	LIX	FFC		
OSFW	Norman	OK	OSF				
PBP	Honolulu	HI	PRH				
PTR	Portland	OR	RFC	PQR	STO		
RHA	State College	PA	RFC	CTP	BOX		
RSA	Sacramento	CA	RFC	STO	PQR		
SDIF	McLean	VA	DEV				
SFMG	Houston (JSC)	TX	JSC				
SPCR	Norman	OK	NC	SPCW	NHCW		
SPCW	Norman	OK	NC	SPCW	NHCW		
STR	Salt Lake City	UT	RFC	SLC	FWD		
TAR	Taunton	MA	RFC	BOX	CTP		

Performance Work Statement

TECHNICAL EXHIBIT 7

WEATHER FORECAST OFFICE/RIVER FORECAST CENTER SITE INFORMATION

Site ID ¹	WFO/RFC	State ²	Organization	NWWS Uplink 1	NWWS Uplink2	Radar	Radar Maintenance Responsibility
TBED	McLean	VA	DEV				
TIR	Wilmington	OH	RFC	ILN	MPX		
TUA	Tulsa	OK	RFC	TSA	EAX		
VHW	Salt Lake City	UT	WRH				
VRH	Anchorage	AK	ARH				
VUY	Bohemia	NY	ERH				
WNAR	Kansas City	MO	NC	SPCW	NHCW		
WNAW	Kansas City	MO	NC	SPCW	NHCW		
WNOR	Camp Springs	MD	NC	SPCW	NHCW		
WNOW	Camp Springs	MD	NC	SPCW	NHCW		

Performance Work Statement

TECHNICAL EXHIBIT 8

AUTOMATED SERVICE OBSERVING SYSTEMS

EQUIP_ID	SYSTEM	AGENCY	COMMISSION DATE	SITE_ID	WFO/CWA	REG	REG	LOCATION	AIRPORT NAME
ADQ	ASOS	NWS	1/1/1997	ADQ	AFC	AR	AR	Kodiak	Kodiak Airport
AKN	ASOS	NWS	6/1/1998	AKN	AFC	AR	AR	King Salmon	King Salmon Airport
AKW	ASOS	FAA	4/1/1997	AKW	AJK	AR	AR	Klawock	Klawock Airport
ANC	ASOS	NWS	6/1/1998	ANC	AFC	AR	AR	Anchorage	Anchorage Int'l. Airport
ANN	ASOS	NWS	9/1/1996	ANN	AJK	AR	AR	Annette Island	Annette Island Airport
AQT	ASOS	FAA	7/23/1998	AQT	AFG	AR	AR	Nuiqsut	Nuiqsut Airport
AWI	ASOS	FAA	9/15/1998	AWI	AFG	AR	AR	Wainwright	Wainwright Airport
BET	ASOS	NWS	11/1/1998	BET	AFC	AR	AR	Bethel	Bethel Airport
BIG	ASOS	FAA	12/15/1997	BIG	AFG	AR	AR	Delta Junction/Ft.	Allen AAF (Ft. Greely)
BLAIR	ASOS	USAF	9/29/1998	BLAIR	AFG	AR	AR	Oklahoma	R2202-Military Operations Area
BRW	ASOS	NWS	6/1/1998	BRW	AFG	AR	AR	Barrow	Wiley Post - Will Rogers Memorial
BTT	ASOS	FAA	11/19/1999	BTT	AFG	AR	AR	Bettles	Bettles Airport
CDB	ASOS	NWS	7/1/1998	CDB	AFC	AR	AR	Cold Bay	Cold Bay Airport
CDV	ASOS	FAA	12/13/1999	CDV	AFC	AR	AR	Cordova	Merle K. (Mudhole) Smith Airport
DEE	ASOS	FAA	7/27/1998	DEE	AFG	AR	AR	Deering	Deering - New Airport
EAA	ASOS	FAA	2/15/1998	EAA	AFG	AR	AR	Eagle	Eagle Airport
EIELS	ASOS	USAF	11/18/1997	EIELS	AFG	AR	AR	Fairbanks	Eielson AFB
ENA	ASOS	FAA	5/10/1999	ENA	AFC	AR	AR	Kenai	Kenai Municipal Airport
ENN	ASOS	NWS	1/1/1998	ENN	AFG	AR	AR	Nenana	Nenana Municipal Airport
FAI	ASOS	NWS	12/1/1997	FAI	AFG	AR	AR	Fairbanks	Fairbanks Int'l. Airport
GKN	ASOS	FAA	11/19/1999	GKN	AFC	AR	AR	Gulkana	Gulkana Airport
HNS	ASOS	FAA	6/5/1998	HNS	AJK	AR	AR	Haines	Haines Airport
HOM	ASOS	NWS	12/1/1997	HOM	AFC	AR	AR	Homer	Homer Airport
ILI	ASOS	FAA	12/1/1997	ILI	AFC	AR	AR	Iliamna	Iliamna Airport
JNU	ASOS	FAA	3/1/1998	JNU	AJK	AR	AR	Juneau	Juneau Int'l. Airport

Procurement Sensitive

Rev. August 7, 2002

TE-8-1

Performance Work Statement

TECHNICAL EXHIBIT 8

AUTOMATED SERVICE OBSERVING SYSTEMS

EQUIP_ID	SYSTEM	AGENCY	COMMISSION DATE	SITE_ID	WFO/CWA	REG	REG	LOCATION	AIRPORT NAME
KAL	ASOS	FAA	7/7/1998	KAL	AFG	AR	AR	Kaltag	Kaltag Airport
KTN	ASOS	FAA	12/9/1996	KTN	AJK	AR	AR	Ketchikan	Ketchikan Int'l. Airport
KVL	ASOS	FAA	7/7/1998	KVL	AFG	AR	AR	Kivalina	Kivalina Airport
LHD	ASOS	FAA	1/22/1998	LHD	AFC	AR	AR	Anchorage	Lake Hood Airport
MCG	ASOS	NWS	7/1/1998	MCG	AFC	AR	AR	McGrath	McGrath Airport
MRI	ASOS	FAA	10/15/1997	MRI	AFC	AR	AR	Anchorage	Merrill Field
OME	ASOS	NWS	7/1/1998	OME	AFG	AR	AR	Nome	Nome Airport
ORT	ASOS	FAA	3/20/2000	ORT	AFG	AR	AR	Northway	Northway Airport
OTZ	ASOS	NWS	12/1/1997	OTZ	AFG	AR	AR	Kotzebue	Ralph Wien Memorial Airport
PADK	ASOS	NAVY	9/4/1993	PADK	AFC	AR	AR	Adak	Naval Air Station
PAQ	ASOS	FAA	9/15/1997	PAQ	AFC	AR	AR	Palmer	Palmer Municipal Airport
PASY	ASOS	USAF	1/27/1995	PASY	AFC	AR	AR	Eareckson AFS	Eareckson AFS
PBV	ASOS	FAA	9/18/1996	PBV	AFC	AR	AR	St. George Island	St. George Airport
POR	ASOS	FAA	10/15/1998	POR	AFC	AR	AR	Portage Glacier	Portage Visitor Center
SCC	ASOS	FAA	6/9/1999	SCC	AFG	AR	AR	Deadhorse	Deadhorse Airport
SGY	ASOS	FAA	8/22/1996	SGY	AJK	AR	AR	Skagway	Skagway Airport
SIT	ASOS	FAA	12/1/1996	SIT	AJK	AR	AR	Sitka	Sitka Rocky Gutierrez Airport
SNP	ASOS	NWS	1/1/1997	SNP	AFC	AR	AR	St. Paul Island	St. Paul Island Airport
SOV	ASOS	FAA	5/2/1997	SOV	AFC	AR	AR	Seldovia	Seldovia Airport
SWD	ASOS	FAA	4/1/1997	SWD	AFC	AR	AR	Seward	Seward Airport
TAL	ASOS	FAA	11/19/1999	TAL	AFG	AR	AR	Tanana	Ralph M. Calhoun Memorial Airport
TKA	ASOS	NWS	1/1/1998	TKA	AFC	AR	AR	Talkeetna	Talkeetna Airport
YAK	ASOS	NWS	11/1/1997	YAK	AJK	AR	AR	Yakutat	Yakutat Airport
YUKON	ASOS	USAF	11/25/1997	YUKON	AFG	AR	AR	Yukon	R2205-Military Operations Area
2WX	OT-ASOS	NWS	4/16/1998	2WX	UNR	CR	CR	Buffalo	Buffalo
8D3	OT-ASOS	NWS	8/27/1998	8D3	ABR	CR	CR	Sisseton	Sisseton Municipal Airport

Procurement Sensitive

Rev. August 7, 2002

TE-8-2

Performance Work Statement

TECHNICAL EXHIBIT 8

AUTOMATED SERVICE OBSERVING SYSTEMS

EQUIP_ID	SYSTEM	AGENCY	COMMISSION DATE	SITE_ID	WFO/CWA	REG	REG	LOCATION	AIRPORT NAME
9V9	OT-ASOS	NWS	2/5/1998	9V9	FSD	CR	CR	Chamberlain	Chamberlain Municipal Airport
AAO	ASOS	FAA	11/14/1995	AAO	ICT	CR	CR	Wichita	Colonel James Jabara Airport
ABR	ASOS	NWS	11/1/1994	ABR	ABR	CR	CR	Aberdeen	Aberdeen Regional Airport
ADG	ASOS	FAA	12/17/1997	ADG	DTX	CR	CR	Adrian	Lenawee County Airport
AFAC1	ASOS	USAF	8/29/1997	BLS	PUB	CR	CR	Ellcot	Bullseye Aux Airfield
AIA	ASOS	FAA	5/16/1996	AIA	CYS	CR	CR	Alliance	Alliance Municipal Airport
AKO	ASOS	FAA	2/6/1996	AKO	BOU	CR	CR	Akron	Akron - Washington County Airport
ALO	ASOS	NWS	4/1/1996	ALO	DMX	CR	CR	Waterloo	Waterloo Municipal Airport
ALS	ASOS	NWS	9/1/1992	ALS	PUB	CR	CR	Alamosa	San Luis Valley Regional - Bergman
AMW	ASOS	FAA	9/19/1996	AMW	DMX	CR	CR	Ames	Ames Municipal Airport
ANJ	OT-ASOS	NWS	1/1/1997	ANJ	APX	CR	CR	Sault Ste Marie	Sault Ste. Marie Municipal Airport
APA	ASOS	FAA	6/29/1998	APA	BOU	CR	CR	Denver	Centennial Airport
APN	ASOS	NWS	4/1/1996	APN	APX	CR	CR	Alpena	Alpena County Regional Airport
ARB	ASOS	FAA	11/5/1998	ARB	DTX	CR	CR	Ann Arbor	Ann Arbor Municipal Airport
ARR	ASOS	FAA	10/8/1998	ARR	LOT	CR	CR	Chicago/Aurora	Aurora Municipal Airport
ASE	ASOS	FAA	5/21/1998	ASE	GJT	CR	CR	Aspen	Aspen - Pitkin County Airport (Sardy)
ASX	ASOS	FAA	10/16/1998	ASX	DLH	CR	CR	Ashland	John F. Kennedy Memorial Airport
ATY	ASOS	FAA	4/24/1996	ATY	ABR	CR	CR	Watertown	Watertown Municipal Airport
AUW	ASOS	FAA	9/14/2000	AUW	GRB	CR	CR	Wausau	Wausau Downtown Airport
AXN	ASOS	FAA	12/14/1995	AXN	MPX	CR	CR	Alexandria	Chandler Field
AZO	ASOS	FAA	1/15/1998	AZO	GRR	CR	CR	Kalamazoo	Kalamazoo - Battle Creek Int'l. Airport
BBW	ASOS	FAA	7/29/1999	BBW	LBF	CR	CR	Broken Bow	Broken Bow Municipal Airport
BDE	ASOS	FAA	6/28/1995	BDE	FGF	CR	CR	Baudette	Baudette Int'l. Airport
BEH	ASOS	FAA	6/19/1996	BEH	IWX	CR	CR	Benton Harbor	Southwest Michigan Regional Airport
BFF	ASOS	NWS	6/1/1995	BFF	CYS	CR	CR	Scottsbluff	William B. Heilig Field
BIS	ASOS	NWS	5/1/1996	BIS	BIS	CR	CR	Bismarck	Bismarck Municipal Airport

Procurement Sensitive

Rev. August 7, 2002

TE-8-3

Performance Work Statement

TECHNICAL EXHIBIT 8

AUTOMATED SERVICE OBSERVING SYSTEMS

EQUIP_ID	SYSTEM	AGENCY	COMMISSION DATE	SITE_ID	WFO/CWA	REG	REG	LOCATION	AIRPORT NAME
BIV	ASOS	FAA	6/21/1996	BIV	GRR	CR	CR	Holland	Tulip City Airport
BMG	ASOS	FAA	3/12/1998	BMG	IND	CR	CR	Bloomington	Monroe County Airport
BPI	ASOS	FAA	2/26/1998	BPI	RIW	CR	CR	Big Piney	Big Piney - Marbleton Airport
BRD	ASOS	FAA	10/24/1995	BRD	DLH	CR	CR	Brainerd	Brainerd - Crow Wing County Regional
BRL	ASOS	FAA	11/21/1996	BRL	DVN	CR	CR	Burlington	Burlington Regional Airport
BTL	ASOS	FAA	2/12/1998	BTL	GRR	CR	CR	Battle Creek	W. K. Kellogg Airport
BWG	ASOS	FAA	2/6/1996	BWG	LMK	CR	CR	Bowling Green	Bowling Green - Warren County Regional
BYG	ASOS	FAA	7/30/1998	BYG	RIW	CR	CR	Buffalo	Johnson County Airport
CAG	ASOS	FAA	8/15/1996	CAG	GJT	CR	CR	Craig	Craig - Moffat Airport
CDJ	OT-ASOS	NWS	5/21/1998	CDJ	EAX	CR	CR	Chillicothe	Chillicothe Agri-Science Center
CDR	ASOS	FAA	8/30/2000	CDR	CYS	CR	CR	Chadron	Chadron Municipal Airport
CEZ	ASOS	FAA	5/23/1996	CEZ	GJT	CR	CR	Cortez	Cortez Municipal Airport
CFV	ASOS	FAA	4/17/1996	CFV	ICT	CR	CR	Coffeyville	Coffeyville Municipal Airport
CGI	ASOS	FAA	3/5/1997	CGI	PAH	CR	CR	Cape Girardeau	Cape Girardeau Regional Airport
CID	ASOS	FAA	4/24/1996	CID	DVN	CR	CR	Cedar Rapids	The Eastern Iowa Airport
CMI	ASOS	FAA	4/24/1997	CMI	ILX	CR	CR	Champaign/Urbana	Univ. of Illinois - Willard Airport
CMX	ASOS	FAA	9/14/2000	CMX	MQT	CR	CR	Hancock	Houghton County Memorial Airport
CNK	ASOS	NWS	9/1/1992	CNK	TOP	CR	CR	Concordia	Blosser Municipal Airport
CNU	ASOS	FAA	5/16/1996	CNU	ICT	CR	CR	Chanute	Chanute Martin Johnson Airport
COS	ASOS	NWS	11/1/1992	COS	PUB	CR	CR	Colorado Springs	City of Colorado Springs Municipal
COU	ASOS	NWS	9/1/1995	COU	LSX	CR	CR	Columbia	Columbia Regional Airport
CPR	ASOS	NWS	4/1/1996	CPR	RIW	CR	CR	Casper	Natrona County Int'l. Airport
CPS	ASOS	FAA	5/29/1997	CPS	LSX	CR	CR	Cahokia/St. Louis	St. Louis Downtown Airport
CUT	OT-ASOS	NWS	4/9/1999	CUT	UNR	CR	CR	Custer	Custer Airport
CYS	ASOS	NWS	11/1/1995	CYS	CYS	CR	CR	Cheyenne	Cheyenne Airport
D07	OT-ASOS	NWS	5/21/1998	D07	UNR	CR	CR	Faith South Dakota	Faith Airport

Procurement Sensitive

Rev. August 7, 2002

TE-8-4

Performance Work Statement

TECHNICAL EXHIBIT 8

AUTOMATED SERVICE OBSERVING SYSTEMS

EQUIP_ID	SYSTEM	AGENCY	COMMISSION DATE	SITE_ID	WFO/CWA	REG	REG	LOCATION	AIRPORT NAME
DBQ	ASOS	NWS	9/1/1995	DBQ	DVN	CR	CR	Dubuque	Dubuque Regional Airport
DDC	ASOS	NWS	9/1/1992	DDC	DDC	CR	CR	Dodge City	Dodge City Regional Airport
DEC	ASOS	FAA	11/29/2000	DEC	ILX	CR	CR	Decatur	Decatur Airport
DEN	ASOS	NWS	2/1/1994	DEN	BOU	CR	CR	Denver	Denver Int'l. Airport
DET	ASOS	FAA	10/19/2000	DET	DTX	CR	CR	Detroit	Detroit City Airport
DGW	ASOS	FAA	5/28/1998	DGW	CYS	CR	CR	Douglas	Converse County Airport
DIK	ASOS	FAA	6/21/2001	DIK	BIS	CR	CR	Dickinson	Dickinson Municipal Airport
DLH	ASOS	NWS	4/1/1996	DLH	DLH	CR	CR	Duluth	Duluth Int'l. Airport
DMO	ASOS	FAA	10/24/1995	DMO	EAX	CR	CR	Sedalia	Sedalia Memorial Airport
DPA	ASOS	FAA	4/24/1997	DPA	LOT	CR	CR	Chicago/West Chicago	Dupage Airport
DRO	ASOS	FAA	5/23/1996	DRO	GJT	CR	CR	Durango	Durango - La Plata County Airport
DSM	ASOS	NWS	12/1/1995	DSM	DMX	CR	CR	Des Moines	Des Moines Int'l. Airport
DTW	ASOS	NWS	7/1/1995	DTW	DTX	CR	CR	Detroit	Detroit Metropolitan - Wayne County
DVN	ASOS	FAA	4/17/1996	DVN	DVN	CR	CR	Davenport	Davenport Municipal Airport
EAU	ASOS	FAA	8/24/2000	EAU	MPX	CR	CR	Eau Claire	Chippewa Valley Regional Airport
EEO	ASOS	FAA	2/27/1997	EEO	GJT	CR	CR	Meeker	Meeker Airport
EMP	ASOS	FAA	2/15/1996	EMP	TOP	CR	CR	Emporia	Emporia Municipal Airport
ENW	ASOS	FAA	10/9/1997	ENW	MKX	CR	CR	Kenosha	Kenosha Regional Airport
EST	ASOS	FAA	12/14/1995	EST	DMX	CR	CR	Estherville	Estherville Municipal Airport
EVV	ASOS	NWS	2/1/1996	EVV	PAH	CR	CR	Evansville	Evansville Regional Airport
EYE	ASOS	FAA	2/15/1996	EYE	IND	CR	CR	Indianapolis	Eagle Creek Airpark
FAR	ASOS	NWS	11/1/1995	FAR	FGF	CR	CR	Fargo	Hector Int'l. Airport
FCM	ASOS	FAA	10/2/1997	FCM	MPX	CR	CR	Minneapolis	Flying Cloud Airport
FFT	ASOS	FAA	12/14/1995	FFT	LMK	CR	CR	Frankfort	Capital City Airport
FLD	ASOS	FAA	7/29/1996	FLD	MKX	CR	CR	Fond Du Lac	Fond Du Lac County Airport
FNB	ASOS	FAA	8/30/2000	FNB	OAX	CR	CR	Falls City	Brenner Field

Procurement Sensitive

Rev. August 7, 2002

TE-8-5

Performance Work Statement

TECHNICAL EXHIBIT 8

AUTOMATED SERVICE OBSERVING SYSTEMS

EQUIP_ID	SYSTEM	AGENCY	COMMISSION DATE	SITE_ID	WFO/CWA	REG	REG	LOCATION	AIRPORT NAME
FNT	ASOS	NWS	6/1/1995	FNT	DTX	CR	CR	Flint	Bishop Int'l. Airport
FOE	ASOS	FAA	11/19/1997	FOE	TOP	CR	CR	Topeka	Forbes Field
FRI	ASOS	USAF	9/25/1997	KS.A1	TOP	CR	CR	Ft. Riley	Ft. Riley
FSD	ASOS	NWS	4/1/1996	FSD	FSD	CR	CR	Sioux Falls	Joe Foss Field
FWA	ASOS	NWS	7/1/1996	FWA	IWX	CR	CR	Fort Wayne	Fort Wayne Int'l. Airport
GCC	OT-ASOS	NWS	7/16/1998	GCC	UNR	CR	CR	Gillette	Gillette - Campbell County Airport
GCK	ASOS	FAA	12/17/1996	GCK	DDC	CR	CR	Garden City	Garden City Regional Airport
GEY	ASOS	FAA	10/15/1998	GEY	RIW	CR	CR	Greybull	South Big Horn County Airport
GEZ	ASOS	FAA	6/25/1998	GEZ	IND	CR	CR	Shelbyville	Shelbyville Municipal Airport
GFK	ASOS	FAA	12/18/1997	GFK	FGF	CR	CR	Grand Forks	Grand Forks Int'l. Airport
GJT	ASOS	NWS	4/1/1996	GJT	GJT	CR	CR	Grand Junction	Walker Field
GLD	ASOS	NWS	9/1/1992	GLD	GLD	CR	CR	Goodland	Goodland Municipal Airport (Renner)
GLR	ASOS	FAA	3/26/1998	GLR	APX	CR	CR	Gaylord	Otsego County Airport
GNA	OT-ASOS	NWS	7/30/1998	GNA	DLH	CR	CR	Grand Marais	The Bay of Grand Marais
GRB	ASOS	NWS	7/1/1996	GRB	GRB	CR	CR	Ashwaubenon	Austin Straubel Int'l. Airport
GRI	ASOS	NWS	10/1/1992	GRI	GID	CR	CR	Grand Island	Central Nebraska Regional Airport
GRR	ASOS	NWS	8/1/1995	GRR	GRR	CR	CR	Grand Rapids	Gerald R. Ford Int'l. Airport
GSH	ASOS	FAA	9/26/1996	GSH	IWX	CR	CR	Goshen	Goshen Municipal Airport
GVW	ASOS	FAA	8/28/1997	GVW	EAX	CR	CR	Kansas City	Richards - Gebaur Memorial Airport
HEI	ASOS	FAA	3/13/1996	HEI	BIS	CR	CR	Hettinger	Hettinger Municipal Airport
HIB	ASOS	FAA	8/24/2000	HIB	DLH	CR	CR	Hibbing	Chisholm - Hibbing Airport
HLC	ASOS	FAA	5/16/1996	HLC	GLD	CR	CR	Hill City	Hill City Municipal Airport
HON	ASOS	NWS	11/1/1996	HON	FSD	CR	CR	Huron	Huron Regional Airport
HSI	ASOS	FAA	5/30/1995	HSI	GID	CR	CR	Hastings	Hastings Municipal Airport
HTL	ASOS	NWS	4/1/1996	HTL	APX	CR	CR	Houghton Lake	Roscommon County Airport
HUF	ASOS	FAA	3/5/1998	HUF	IND	CR	CR	Terre Haute	Terre Haute Int'l. - Hulman Field

Procurement Sensitive

Rev. August 7, 2002

TE-8-6

Performance Work Statement

TECHNICAL EXHIBIT 8

AUTOMATED SERVICE OBSERVING SYSTEMS

EQUIP_ID	SYSTEM	AGENCY	COMMISSION DATE	SITE_ID	WFO/CWA	REG	REG	LOCATION	AIRPORT NAME
HUT	ASOS	FAA	6/20/1996	HUT	ICT	CR	CR	Hutchinson	Hutchinson Municipal Airport
HYR	ASOS	FAA	11/14/1995	HYR	DLH	CR	CR	Hayward	Sawyer County Airport
ICT	ASOS	NWS	11/1/1992	ICT	ICT	CR	CR	Wichita	Wichita Mid-Continent Airport
IEN	ASOS	FAA	6/11/1997	IEN	UNR	CR	CR	Pine Ridge	Pine Ridge Airport
IML	ASOS	FAA	6/29/2000	IML	LBF	CR	CR	Imperial	Imperial Municipal Airport
IMT	ASOS	FAA	10/10/1996	IMT	MQT	CR	CR	Iron Mountain/Kingsford	Ford Airport
IND	ASOS	NWS	1/1/1996	IND	IND	CR	CR	Indianapolis	Indianapolis Int'l. Airport
INL	ASOS	NWS	11/1/1996	INL	DLH	CR	CR	International Falls	Falls Int'l. Airport
IOW	ASOS	FAA	3/1/1995	IOW	DVN	CR	CR	Iowa City	Iowa City Municipal Airport
IRK	OT-ASOS	NWS	6/11/1998	IRK	EAX	CR	CR	Kirksville	Kirksville Regional Airport
ISN	ASOS	NWS	4/1/1996	ISN	BIS	CR	CR	Williston	Sloulin Field Int'l. Airport
ISW	ASOS	FAA	11/14/1995	ISW	GRB	CR	CR	Wisconsin Rapids	South Wood County Airport (Alexander)
ITR	ASOS	FAA	4/10/1997	ITR	GLD	CR	CR	Burlington	Kit Carson County Airport
IXD	ASOS	FAA	4/10/1997	IXD	EAX	CR	CR	Olathe	New Century Aircenter
JEF	ASOS	FAA	4/10/1997	JEF	LSX	CR	CR	Jefferson City	Jefferson City Memorial Airport
JKL	ASOS	NWS	12/1/1995	JKL	JKL	CR	CR	Jackson	Julian Carroll Airport
JLN	ASOS	FAA	2/26/1998	JLN	SGF	CR	CR	Joplin	Joplin Regional Airport
JMS	ASOS	FAA	10/5/2000	JMS	BIS	CR	CR	Jamestown	Jamestown Municipal Airport
JXN	ASOS	FAA	10/12/2000	JXN	GRR	CR	CR	Jackson	Jackson County Airport (Reynolds Field)
LAA	ASOS	FAA	5/18/1995	LAA	PUB	CR	CR	Lamar	Lamar Municipal Airport
LAF	ASOS	FAA	1/15/1998	LAF	IND	CR	CR	Lafayette	Purdue Univ. Airport
LAN	ASOS	NWS	6/1/1996	LAN	GRR	CR	CR	Lansing	Capital City Airport
LAR	ASOS	FAA	9/28/2000	LAR	CYS	CR	CR	Laramie	Laramie Regional Airport
LBF	ASOS	NWS	2/1/1996	LBF	LBF	CR	CR	North Platte	North Platte Regional Airport - Lee
LEX	ASOS	NWS	3/1/1996	LEX	LMK	CR	CR	Lexington	Blue Grass Airport
LHX	ASOS	FAA	2/6/1996	LHX	PUB	CR	CR	La Junta	La Junta Municipal Airport

Procurement Sensitive

Rev. August 7, 2002

TE-8-7

Performance Work Statement

TECHNICAL EXHIBIT 8

AUTOMATED SERVICE OBSERVING SYSTEMS

EQUIP_ID	SYSTEM	AGENCY	COMMISSION DATE	SITE_ID	WFO/CWA	REG	REG	LOCATION	AIRPORT NAME
LIC	ASOS	NWS	12/14/1995	LIC	BOU	CR	CR	Limon	Limon Municipal Airport
LND	OT-ASOS	NWS	12/1/1996	LND	RIW	CR	CR	Lander	Hunt Field
LNK	ASOS	NWS	11/1/1992	LNK	OAX	CR	CR	Lincoln	Lincoln Municipal Airport
LNR	ASOS	FAA	10/19/2000	LNR	MKX	CR	CR	Lone Rock	Tri-County Regional Airport
LOU	ASOS	FAA	9/6/2000	LOU	LMK	CR	CR	Louisville	Bowman Field
LOZ	ASOS	FAA	9/18/1996	LOZ	JKL	CR	CR	London	London - Corbin Airport (Magee Field)
LSE	ASOS	FAA	10/5/2000	LSE	ARX	CR	CR	La Crosse	La Crosse Municipal Airport
LWC	ASOS	FAA	4/17/1996	LWC	TOP	CR	CR	Lawrence	Lawrence Municipal Airport
LWD	OT-ASOS	NWS	9/1/1997	LWD	DMX	CR	CR	Lamoni	Lamoni Airport
LWV	ASOS	FAA	9/18/1996	LWV	ILX	CR	CR	Lawrenceville	Lawrenceville - Vincennes Int'l.
LXT	ASOS	FAA		LXT	EAX	CR	CR	Lee's Summit	Lee's Summit Municipal Airport
LXV	OT-ASOS	NWS	7/30/1998	LXV	PUB	CR	CR	Leadville	Lake County Airport
MBG	OT-ASOS	NWS	9/1/1997	MBG	ABR	CR	CR	Mobridge	Mobridge Municipal Airport
MBS	ASOS	FAA	9/10/1998	MBS	DTX	CR	CR	Saginaw	MBS Int'l. Airport
MCI	ASOS	NWS	7/1/1995	MCI	EAX	CR	CR	Kansas City	Kansas City Int'l. Airport
MCK	ASOS	FAA	12/4/1996	MCK	GLD	CR	CR	Mc Cook	Mc Cook Municipal Airport
MCW	ASOS	FAA	8/17/2000	MCW	DMX	CR	CR	Mason City	Mason City Municipal Airport
MDH	ASOS	FAA	11/20/1997	MDH	PAH	CR	CR	Carbondale/Murphysboro	Southern Illinois Airport
MDW	ASOS	FAA	4/10/1997	MDW	LOT	CR	CR	Chicago	Chicago Midway Airport
MFI	ASOS	FAA	10/24/1995	MFI	GRB	CR	CR	Marshfield	Marshfield Municipal Airport
MHE	ASOS	FAA	9/1/1999	MHE	FSD	CR	CR	Mitchell	Mitchell Municipal Airport
MHK	ASOS	FAA	2/15/1996	MHK	TOP	CR	CR	Manhattan	Manhattan Regional Airport
MIC	ASOS	FAA	9/11/1997	MIC	MPX	CR	CR	Minneapolis	Crystal Airport
MIE	ASOS	FAA	4/29/1999	MIE	IND	CR	CR	Muncie	Delaware County Airport (Johnson Field)
MIW	ASOS	FAA	9/4/1996	MIW	DMX	CR	CR	Marshalltown	Marshalltown Municipal Airport
MKC	ASOS	FAA	11/13/1997	MKC	EAX	CR	CR	Kansas City	Kansas City Downtown Airport

Procurement Sensitive

Rev. August 7, 2002

TE-8-8

Performance Work Statement

TECHNICAL EXHIBIT 8

AUTOMATED SERVICE OBSERVING SYSTEMS

EQUIP_ID	SYSTEM	AGENCY	COMMISSION DATE	SITE_ID	WFO/CWA	REG	REG	LOCATION	AIRPORT NAME
MKE	ASOS	NWS	7/1/1995	MKE	MKX	CR	CR	Milwaukee	General Mitchell Int'l. Airport
MKG	ASOS	NWS	5/1/1996	MKG	GRR	CR	CR	Muskegon	Muskegon County Airport
MLI	ASOS	NWS	7/1/1995	MLI	DVN	CR	CR	Moline	Quad City Int'l. Airport
MOT	ASOS	FAA	7/26/2001	MOT	BIS	CR	CR	Minot	Minot International Airport
MSN	ASOS	NWS	4/1/1996	MSN	MKX	CR	CR	Madison	Dane County Regional Airport (Truax)
MSP	ASOS	NWS	6/1/1996	MSP	MPX	CR	CR	Minneapolis	Minneapolis-St. Paul
MTJ	ASOS	FAA	11/30/1993	MTJ	GJT	CR	CR	Montrose	Montrose Regional Airport
MTO	ASOS	FAA	12/4/1997	MTO	ILX	CR	CR	Mattoon/Charleston	Coles County Memorial Airport
N60	OT-ASOS	NWS	5/21/1998	N60	BIS	CR	CR	Garrison	Garrison
ODX	ASOS	FAA	8/30/2000	ODX	GID	CR	CR	Ord	Evelyn Sharp Field
OFK	ASOS	NWS	4/1/1996	OFK	OAX	CR	CR	Norfolk	Karl Stefan Memorial Airport
OJC	ASOS	FAA	6/20/1996	OJC	EAX	CR	CR	Olathe	Johnson County Executive Airport
OMA	ASOS	FAA	2/22/1996	OMA	OAX	CR	CR	Omaha	Eppley Airfield
ORD	ASOS	NWS	2/1/1996	ORD	LOT	CR	CR	Chicago	Chicago O'Hare Int'l. Airport
OSH	ASOS	FAA	4/17/1996	OSH	GRB	CR	CR	Oshkosh	Wittman Regional Airport
OTM	ASOS	FAA	8/17/2000	OTM	DMX	CR	CR	Ottumwa	Ottumwa Industrial Airport
OVS	ASOS	FAA	1/21/1999	OVS	ARX	CR	CR	Boscobel	Boscobel Airport
P28	OT-ASOS	NWS	2/5/1998	P28	DDC	CR	CR	Medicine Lodge	Medicine Lodge
P58	OT-ASOS	NWS	6/24/1999	P58	DTX	CR	CR	Port Hope	Port Hope
P59	OT-ASOS	NWS	7/30/1998	P59	MQT	CR	CR	Copper Harbor	Copper Harbor
P60	OT-ASOS	NWS	8/13/1998	P60	RIW	CR	CR	Yellowstone Lake	Yellowstone Lake Airport
P75	OT-ASOS	NWS	7/30/1998	P75	MQT	CR	CR	Manistique	Manistique
PAH	ASOS	NWS	8/1/1995	PAH	PAH	CR	CR	Paducah	Barkley Regional Airport
PHP	OT-ASOS	NWS	6/26/1998	PHP	UNR	CR	CR	Philip	Philip Airport
PIA	ASOS	NWS	10/1/1995	PIA	ILX	CR	CR	Peoria	Greater Peoria Regional Airport
PIR	ASOS	FAA	9/7/2000	PIR	ABR	CR	CR	Pierre	Pierre Regional Airport

Procurement Sensitive

Performance Work Statement

TECHNICAL EXHIBIT 8

AUTOMATED SERVICE OBSERVING SYSTEMS

EQUIP_ID	SYSTEM	AGENCY	COMMISSION DATE	SITE_ID	WFO/CWA	REG	REG	LOCATION	AIRPORT NAME
PKD	ASOS	FAA	6/28/1995	PKD	FGF	CR	CR	Park Rapids	Park Rapids Municipal Airport
PLN	ASOS	FAA	8/24/2000	PLN	APX	CR	CR	Pellston	Pellston Regional Airport of Emmet
POF	OT-ASOS	NWS	11/20/1997	POF	PAH	CR	CR	Poplar Bluff	Poplar Bluff Municipal Airport
PPF	ASOS	FAA	5/16/1996	PPF	ICT	CR	CR	Parsons	Tri-City Airport
PTK	ASOS	FAA	8/20/1998	PTK	DTX	CR	CR	Pontiac	Oakland County Int'l. Airport
PUB	ASOS	NWS	10/1/1992	PUB	PUB	CR	CR	Pueblo	Pueblo Memorial Airport
PWK	ASOS	FAA	4/17/1996	PWK	LOT	CR	CR	Chicago/Prospect	Palwaukee Municipal Airport
RAC	ASOS	FAA	3/26/1998	RAC	MKX	CR	CR	Racine	John H. Batten Airport
RAP	ASOS	NWS	9/1/1995	RAP	UNR	CR	CR	Rapid City	Rapid City Regional Airport
RFD	ASOS	NWS	7/1/1995	RFD	LOT	CR	CR	Rockford	Greater Rockford Airport
RHI	ASOS	FAA	5/28/1998	RHI	GRB	CR	CR	Rhineland	Rhineland - Oneida County Airport
RIL	ASOS	FAA	2/27/1997	RIL	GJT	CR	CR	Rifle	Garfield County Regional Airport
RILY2	ASOS	USAF	7/21/1998	RILY2	TOP	CR	CR	Ft Riley	Within 100 Miles Of Fort Riley
RIW	ASOS	NWS	12/1/1995	RIW	RIW	CR	CR	Riverton	Riverton Regional Airport
RKS	ASOS	FAA	5/17/2001	RKS	RIW	CR	CR	Rock Springs	Rock Springs - Sweetwater County
RSL	ASOS	FAA	12/14/1995	RSL	ICT	CR	CR	Russell	Russell Municipal Airport
RST	ASOS	NWS	6/1/1996	RST	ARX	CR	CR	Rochester	Rochester Int'l. Airport
RWF	ASOS	FAA	8/24/2000	RWF	MPX	CR	CR	Redwood Falls	Redwood Falls Municipal Airport
RWL	ASOS	FAA	9/28/2000	RWL	CYS	CR	CR	Rawlins	Rawlins Municipal Airport
SBM	ASOS	FAA	8/15/1996	SBM	MKX	CR	CR	Sheboygan	Sheboygan County Memorial Airport
SBN	ASOS	NWS	7/1/1996	SBN	IWX	CR	CR	South Bend	South Bend Regional Airport
SDF	ASOS	NWS	8/1/1994	SDF	LMK	CR	CR	Louisville	Louisville Int'l. - Standiford Field
SET	ASOS	FAA	3/26/1997	SET	LSX	CR	CR	St. Charles	St. Charles County Smartt Airport
SFD	ASOS	FAA	3/19/1997	SFD	UNR	CR	CR	Winner	Bob Wiley Field
SGF	ASOS	NWS	11/1/1995	SGF	SGF	CR	CR	Springfield	Springfield - Branson Regional Airport
SLN	ASOS	FAA	12/14/1995	SLN	ICT	CR	CR	Salina	Salina Municipal Airport

Procurement Sensitive

Rev. August 7, 2002

TE-8-10

Performance Work Statement

TECHNICAL EXHIBIT 8

AUTOMATED SERVICE OBSERVING SYSTEMS

EQUIP_ID	SYSTEM	AGENCY	COMMISSION DATE	SITE_ID	WFO/CWA	REG	REG	LOCATION	AIRPORT NAME
SNY	ASOS	FAA	12/14/1995	SNY	CYS	CR	CR	Sidney	Sidney Municipal Airport
SPD	OT-ASOS	NWS	6/25/1998	SPD	PUB	CR	CR	Springfield	Comanche National Grassland
SPI	ASOS	NWS	12/1/1995	SPI	ILX	CR	CR	Springfield	Capital Airport
SPW	ASOS	FAA	9/19/1996	SPW	FSD	CR	CR	Spencer	Spencer Municipal Airport
STC	ASOS	NWS	6/1/1995	STC	MPX	CR	CR	St. Cloud	St. Cloud Regional Airport
STJ	ASOS	FAA	9/19/1996	STJ	EAX	CR	CR	St. Joseph	Rosecrans Memorial Airport
STL	ASOS	NWS	6/1/1996	STL	LSX	CR	CR	St. Louis	Lambert - St Louis Int'l. Airport
STP	ASOS	FAA	6/28/1996	STP	MPX	CR	CR	St. Paul	St. Paul Downtown Airport (Holman)
SUS	ASOS	FAA	1/15/1998	SUS	LSX	CR	CR	St. Louis	Spirit of St Louis Airport
SUX	ASOS	NWS	6/1/1995	SUX	FSD	CR	CR	Sioux City	Sioux Gateway Airport
TAD	ASOS	FAA	9/27/2001	TAD	PUB	CR	CR	Trinidad	Perry Stokes Airport
TOP	ASOS	NWS	12/1/1992	TOP	TOP	CR	CR	Topeka	Philip Billard Municipal Airport
TOR	ASOS	FAA	8/26/1999	TOR	CYS	CR	CR	Torrington	Torrington Municipal Airport
TQE	ASOS	FAA	5/30/1995	TQE	OAX	CR	CR	Tekamah	Tekamah Municipal Airport
TVC	ASOS	FAA	6/11/1998	TVC	APX	CR	CR	Traverse City	Cherry Capital Airport
UGN	ASOS	FAA	9/1/1999	UGN	LOT	CR	CR	Waukegan	Waukegan Regional Airport
UIN	ASOS	FAA	9/6/2000	UIN	LSX	CR	CR	Quincy	Quincy Municipal Airport (Baldwin)
UNO	ASOS	FAA	8/15/1996	UNO	SGF	CR	CR	West Plains	West Plains Municipal Airport
VIH	ASOS	FAA	11/12/1996	VIH	SGF	CR	CR	Rolla/Vichy	Rolla National Airport
VPZ	ASOS	FAA	11/13/1997	VPZ	LOT	CR	CR	Valparaiso	Porter County Municipal Airport
VTN	ASOS	NWS	10/1/1995	VTN	LBF	CR	CR	Valentine	Miller Field Airport
WLD	ASOS	FAA	12/14/1995	WLD	ICT	CR	CR	Winfield/Arkansas City	Strother Field
WRL	ASOS	FAA	12/20/2000	WRL	RIW	CR	CR	Worland	Worland Municipal Airport
YIP	ASOS	FAA	3/11/1999	YIP	DTX	CR	CR	Detroit	Willow Run Airport
12N	OT-ASOS	NWS	8/17/1998	12N	PHI	ER	ER	Andover	Aeroflex-Andover Airport
1V4	OT-ASOS	NWS	7/15/1998	1V4	BTX	ER	ER	St. Johnsbury	St. Johnsbury

Procurement Sensitive

Performance Work Statement

TECHNICAL EXHIBIT 8

AUTOMATED SERVICE OBSERVING SYSTEMS

EQUIP_ID	SYSTEM	AGENCY	COMMISSION DATE	SITE_ID	WFO/CWA	REG	REG	LOCATION	AIRPORT NAME
ABE	ASOS	NWS	11/1/1995	ABE	PHI	ER	ER	Allentown	Lehigh Valley Int'l. Airport
ACK	ASOS	FAA	6/16/1997	ACK	BOX	ER	ER	Nantucket	Nantucket Memorial Airport
ACY	ASOS	NWS	9/1/1995	ACY	PHI	ER	ER	Atlantic City	Atlantic City Int'l. Airport
AFN	ASOS	FAA	5/24/1995	AFN	BOX	ER	ER	Jaffrey	Jaffrey Municipal - Silver Ranch
AGC	ASOS	FAA	2/3/1999	AGC	PBZ	ER	ER	Pittsburgh	Allegheny County Airport
AKH	ASOS	FAA	1/20/1999	AKH	GSP	ER	ER	Gastonia	Gastonia Municipal Airport
AKQ	OT-ASOS	NWS	10/16/1997	AKQ	AKQ	ER	ER	Wakefield	Wakefield Municipal Airport
AKR	ASOS	FAA	5/19/1999	AKR	CLE	ER	ER	Akron	Akron Fulton Int'l. Airport
ALB	ASOS	NWS	8/1/1995	ALB	ALY	ER	ER	Albany	Albany Int'l. Airport
AND	ASOS	FAA	11/4/1998	AND	GSP	ER	ER	Anderson	Anderson County Airport
AOH	ASOS	FAA	1/28/1998	AOH	IWX	ER	ER	Lima	Lima - Allen County Airport
AOO	ASOS	FAA	7/14/1999	AOO	CTP	ER	ER	Altoona	Altoona - Blair County Airport
AQW	ASOS	FAA	6/15/1995	AQW	ALY	ER	ER	North Adams	Harriman-and-West Airport
ART	ASOS	FAA	1/24/2001	ART	BUF	ER	ER	Watertown	Watertown Int'l. Airport
AUG	ASOS	FAA	1/10/2001	AUG	GYX	ER	ER	Augusta	Augusta State Airport
AVL	ASOS	NWS	6/1/1996	AVL	GSP	ER	ER	Asheville	Asheville Regional Airport
AVP	ASOS	NWS	4/1/1996	AVP	BGM	ER	ER	Wilkes-Barre/Scranton	Wilkes-Barre - Scranton Int'l. Airport
BAF	ASOS	FAA	8/5/1998	BAF	BOX	ER	ER	Westfield	Barnes Municipal Airport
BDL	ASOS	NWS	4/1/1996	BDL	BOX	ER	ER	Windsor Locks	Bradley Int'l. Airport
BDR	ASOS	NWS	5/1/1996	BDR	OKX	ER	ER	Bridgeport	Igor I. Sikorsky Memorial Airport
BED	ASOS	FAA	8/19/1998	BED	BOX	ER	ER	Bedford	Laurence G. Hanscom Field
BFD	ASOS	FAA	12/2/1996	BFD	CTP	ER	ER	Bradford	Bradford Regional Airport
BGM	ASOS	NWS	11/1/1995	BGM	BGM	ER	ER	Binghamton	Binghamton Regional/Edwin A Link Field
BGR	ASOS	FAA	4/1/1998	BGR	CAR	ER	ER	Bangor	Bangor Int'l. Airport
BJJ	ASOS	FAA	12/11/1996	BJJ	CLE	ER	ER	Wooster	Wayne County Airport
BKL	ASOS	FAA	2/11/1998	BKL	CLE	ER	ER	Cleveland	Burke Lakefront Airport

Procurement Sensitive

Rev. August 7, 2002

TE-8-12

Performance Work Statement

TECHNICAL EXHIBIT 8

AUTOMATED SERVICE OBSERVING SYSTEMS

EQUIP_ID	SYSTEM	AGENCY	COMMISSION DATE	SITE_ID	WFO/CWA	REG	REG	LOCATION	AIRPORT NAME
BKW	ASOS	NWS	2/1/1996	BKW	RLX	ER	ER	Beckley	Raleigh County Memorial Airport
BLF	ASOS	FAA	11/8/2000	BLF	RNK	ER	ER	Bluefield	Mercer County Airport
BML	ASOS	FAA	4/28/1995	BML	GYX	ER	ER	Berlin	Berlin Municipal Airport
BOS	ASOS	NWS	4/1/1996	BOS	BOX	ER	ER	Boston	General Edward Lawrence Logan Int'l.
BTB	ASOS	NWS	2/1/1996	BTB	BTB	ER	ER	Burlington	Burlington Int'l. Airport
BUF	ASOS	NWS	12/1/1995	BUF	BUF	ER	ER	Buffalo	Buffalo Niagara Int'l. Airport
BUY	ASOS	FAA	7/1/1998	BUY	RAH	ER	ER	Burlington	Burlington - Alamance Regional Airport
BVY	ASOS	FAA	12/9/1998	BVY	BOX	ER	ER	Beverly	Beverly Municipal Airport
BWI	ASOS	NWS	4/1/1996	BWI	LWX	ER	ER	Baltimore	Baltimore - Washington Int'l. Airport
CAE	ASOS	NWS	12/1/1995	CAE	CAE	ER	ER	Columbia	Columbia Metropolitan Airport
CAK	ASOS	NWS	9/1/1995	CAK	CLE	ER	ER	Akron	Akron - Canton Regional Airport
CAR	ASOS	NWS	8/1/1996	CAR	CAR	ER	ER	Caribou	Caribou Municipal Airport
CDW	ASOS	FAA	6/2/1999	CDW	OKX	ER	ER	Caldwell	Essex County Airport
CEU	ASOS	FAA	3/16/2000	CEU	GSP	ER	ER	Clemson	Oconee County Regional Airport
CHO	ASOS	FAA	11/18/1998	CHO	LWX	ER	ER	Charlottesville	Charlottesville - Albemarle Airport
CHS	ASOS	NWS	10/1/1995	CHS	CHS	ER	ER	Charleston	Charleston AFB/Int'l. Airport
CKB	ASOS	FAA	8/12/1998	CKB	RLX	ER	ER	Clarksburg	Benedum Airport
CLE	ASOS	NWS	12/1/1995	CLE	CLE	ER	ER	Cleveland	Cleveland - Hopkins Int'l. Airport
CLT	ASOS	NWS	7/1/1998	CLT	GSP	ER	ER	Charlotte	Charlotte/Douglas Int'l. Airport
CMH	ASOS	NWS	2/1/1996	CMH	ILN	ER	ER	Columbus	Port Columbus Int'l. Airport
CON	ASOS	NWS	3/1/1996	CON	GYX	ER	ER	Concord	Concord Municipal Airport
CQX	ASOS	FAA	6/14/1995	CQX	BOX	ER	ER	Chatham	Chatham Municipal Airport
CRE	ASOS	FAA	6/16/1999	CRE	ILM	ER	ER	North Myrtle Beach	Grand Strand Airport
CRW	ASOS	NWS	10/1/1994	CRW	RLX	ER	ER	Charleston	Yeager Airport
CUB	ASOS	FAA	10/15/1998	CUB	CAE	ER	ER	Columbia	Columbia Owens Downtown Airport
CVG	ASOS	NWS	10/1/1995	CVG	ILN	ER	CR	Covington/Cincinnati	Cincinnati - Northern Kentucky Int'l.

Procurement Sensitive

Rev. August 7, 2002

TE-8-13

Performance Work Statement

TECHNICAL EXHIBIT 8

AUTOMATED SERVICE OBSERVING SYSTEMS

EQUIP_ID	SYSTEM	AGENCY	COMMISSION DATE	SITE_ID	WFO/CWA	REG	REG	LOCATION	AIRPORT NAME
CXY	ASOS	FAA	10/11/2000	CXY	CTP	ER	ER	Harrisburg	Capital City Airport
DAN	ASOS	FAA	8/16/2000	DAN	RNK	ER	ER	Danville	Danville Regional Airport
DAW	ASOS	FAA	1/19/2000	DAW	GYX	ER	ER	Rochester	Skyhaven Airport
DAY	ASOS	NWS	11/1/1995	DAY	ILN	ER	ER	Dayton	James M. Cox Dayton Int'l. Airport
DCA	ASOS	NWS	2/1/1998	DCA	LWX	ER	ER	Arlington	Ronald Regan-Washington National
DDH	ASOS	FAA	12/9/1998	DDH	ALY	ER	ER	Bennington	Morse State Airport
DFI	ASOS	FAA	1/7/1998	DFI	IWX	ER	ER	Defiance	Defiance Memorial Airport
DKK	ASOS	FAA	12/11/1996	DKK	BUF	ER	ER	Dunkirk	Chautauqua County - Dunkirk Airport
DMH	OT-ASOS	NWS	4/29/1998	DMH	LWX	ER	ER	Baltimore	Baltimore Downtown
DSV	ASOS	FAA	3/1/2000	DSV	BUF	ER	ER	Dansville	Dansville Municipal Airport
DUJ	ASOS	FAA	6/14/2000	DUJ	PBZ	ER	ER	Du Bois	Du Bois - Jefferson County Airport
DXR	ASOS	FAA	5/13/1998	DXR	OKX	ER	ER	Danbury	Danbury Municipal Airport
DYL	ASOS	FAA	7/28/1999	DYL	PHI	ER	ER	Doylestown	Doylestown Airport
ECG	ASOS	FAA	3/25/1998	ECG	AKQ	ER	ER	Elizabeth City	Elizabeth City CGAS/Municipal Airport
EKN	ASOS	NWS	5/1/1996	EKN	RLX	ER	ER	Elkins	Elkins
ELM	ASOS	FAA	12/19/1997	ELM	BGM	ER	ER	Elmira	Elmira - Corning Regional Airport
ELZ	ASOS	FAA	2/2/2000	ELZ	BUF	ER	ER	Wellsville	Wellsville Municipal Airport
EQY	ASOS	FAA	1/27/1999	EQY	GSP	ER	ER	Monroe	Monroe Airport
ERI	ASOS	NWS	10/1/1995	ERI	CLE	ER	ER	Erie	Erie Int'l. Airport
EWB	ASOS	FAA	3/20/1996	EWB	BOX	ER	ER	New Bedford	New Bedford Regional Airport
EWN	ASOS	FAA	9/12/1997	EWN	MHX	ER	ER	New Bern	Craven County Regional Airport
EWR	ASOS	NWS	7/1/1996	EWR	OKX	ER	ER	Newark	Newark Int'l. Airport
FAY	ASOS	FAA	4/15/1998	FAY	RAH	ER	ER	Fayetteville	Fayetteville Regional Airport (Grannis)
FDY	ASOS	FAA	8/16/2000	FDY	CLE	ER	ER	Findlay	Findlay Airport
FIG	ASOS	FAA	1/26/2000	FIG	CTP	ER	ER	Clearfield	Clearfield-Lawrence Airport
FIT	ASOS	FAA	9/17/1997	FIT	BOX	ER	ER	Fitchburg	Fitchburg Municipal Airport

Procurement Sensitive

Rev. August 7, 2002

TE-8-14

Performance Work Statement

TECHNICAL EXHIBIT 8

AUTOMATED SERVICE OBSERVING SYSTEMS

EQUIP_ID	SYSTEM	AGENCY	COMMISSION DATE	SITE_ID	WFO/CWA	REG	REG	LOCATION	AIRPORT NAME
FLO	ASOS	FAA	4/23/1999	FLO	ILM	ER	ER	Florence	Florence Regional Airport
FOK	ASOS	FAA	7/22/1998	FOK	OKX	ER	ER	Westhampton Beach	The Francis S. Gabreski Airport
FRG	ASOS	FAA	8/4/1999	FRG	OKX	ER	ER	Farmingdale	Republic Airport
FVE	ASOS	FAA	5/31/1995	FVE	CAR	ER	ER	Frenchville	Northern Aroostook Regional Airport
FWN	ASOS	FAA	10/25/2000	FWN	PHI	ER	ER	Sussex	Sussex Airport
FZY	ASOS	FAA	3/20/1996	FZY	BUF	ER	ER	Fulton	Oswego County Airport
GED	ASOS	FAA	10/8/1997	GED	PHI	ER	ER	Georgetown	Sussex County Airport
GFL	ASOS	FAA	7/18/2001	GFL	ALY	ER	ER	Glens Falls	Floyd Bennett Memorial Airport
GKJ	ASOS	FAA	1/22/1997	GKJ	CLE	ER	ER	Meadville	Port Meadville Airport
GMU	ASOS	FAA	4/28/1999	GMU	GSP	ER	ER	Greenville	Greenville Downtown Airport
GNR	OT-ASOS	NWS	3/4/1998	GNR	CAR	ER	ER	Greenville	Maine Forest Service
GON	ASOS	FAA	12/8/1999	GON	OKX	ER	ER	Groton/New London	Groton - New London Airport
GRD	ASOS	FAA	5/24/2000	GRD	GSP	ER	ER	Greenwood	Greenwood County Airport
GSO	ASOS	NWS	10/1/1995	GSO	RAH	ER	ER	Greensboro	Piedmont Triad Int'l. Airport
GSP	ASOS	NWS	4/1/1996	GSP	GSP	ER	ER	Greer	Greenville-Spartanburg Int'l. Airport
HAO	ASOS	FAA	5/15/1997	HAO	ILN	ER	ER	Hamilton	Butler County Regional Airport
HFD	ASOS	FAA	5/15/1997	HFD	BOX	ER	ER	Hartford	Hartford - Brainard Airport
HGR	ASOS	FAA	10/1/1998	HGR	LWX	ER	ER	Hagerstown	Hagerstown Regional Airport (Richard)
HIE	ASOS	FAA	5/24/1995	HIE	GYX	ER	ER	Whitefield	Mount Washington Regional Airport
HKY	ASOS	FAA	9/5/1997	HKY	GSP	ER	ER	Hickory	Hickory Regional Airport
HLG	ASOS	FAA	3/25/1998	HLG	PBZ	ER	ER	Wheeling	Wheeling Ohio County Airport
HPN	ASOS	FAA	4/25/2001	HPN	OKX	ER	ER	White Plains	Westchester County Airport
HSE	ASOS	NWS	7/1/1995	HSE	MHX	ER	ER	Hatteras	Billy Mitchell Airport
HTS	ASOS	NWS	9/1/1996	HTS	RLX	ER	ER	Huntington	Tri-State Airport (Milton J. Ferguson)
HUL	ASOS	FAA	9/13/2000	HUL	CAR	ER	ER	Houlton	Houlton Int'l. Airport
HVN	ASOS	FAA	11/14/2001	HVN	OKX	ER	ER	New Haven	Tweed - New Haven Airport

Procurement Sensitive

Rev. August 7, 2002

TE-8-15

Performance Work Statement

TECHNICAL EXHIBIT 8

AUTOMATED SERVICE OBSERVING SYSTEMS

EQUIP_ID	SYSTEM	AGENCY	COMMISSION DATE	SITE_ID	WFO/CWA	REG	REG	LOCATION	AIRPORT NAME
HWV	ASOS	FAA	9/29/1999	HWV	OKX	ER	ER	Shirley	Brookhaven Airport
HYA	ASOS	FAA	2/19/1997	HYA	BOX	ER	ER	Hyannis	Barnstable Municipal - Boardman
HZY	ASOS	FAA	12/2/1998	HZY	CLE	ER	ER	Ashtabula	Ashtabula County Airport
IAD	ASOS	NWS	5/1/1996	IAD	LWX	ER	ER	Sterling	Washington Dulles Int'l. Airport
IAG	ASOS	FAA	9/26/2001	IAG	BUF	ER	ER	Niagara Falls	Niagara Falls International Airport
IGX	ASOS	FAA	7/14/1999	IGX	RAH	ER	ER	Chapel Hill	Horace Williams Airport
IJD	ASOS	FAA	4/28/1995	IJD	BOX	ER	ER	Willimantic	Windham Airport
ILG	ASOS	NWS	10/1/1994	ILG	PHI	ER	ER	Wilmington	New Castle County Airport
ILM	ASOS	NWS	11/1/1995	ILM	ILM	ER	ER	Wilmington	Wilmington Int'l. Airport
ILN	OT-ASOS	NWS	4/1/1998	ILN	ILN	ER	ER	Wilmington	Airborne Airpark
INT	ASOS	FAA	12/2/1998	INT	RAH	ER	ER	Winston Salem	Smith Reynolds Airport
IPT	ASOS	NWS	9/1/1995	IPT	CTP	ER	ER	Williamsport	Williamsport Regional Airport
ISP	ASOS	FAA	8/1/1999	ISP	OKX	ER	ER	Islip	Long Island MacArthur Airport
IWI	ASOS	FAA	4/28/1995	IWI	GYX	ER	ER	Wiscasset	Wiscasset Airport
IZG	ASOS	FAA	12/6/1995	IZG	GYX	ER	ER	Fryeburg	Eastern Slopes Regional Airport
JFK	ASOS	NWS	5/1/1996	JFK	OKX	ER	ER	New York	John F. Kennedy Int'l. Airport
JST	ASOS	FAA	8/30/2000	JST	CTP	ER	ER	Johnstown	Johnstown - Cambria County Airport
KNAK	ASOS	NAVY	12/22/1995	KNAK	LWX	ER	ER	Annapolis	US Naval Academy
KNBC	ASOS	NAVY	3/11/1995	KNBC	CHS	ER	ER	Beaufort	Beaufort MCAS
KNBT	ASOS	NAVY	2/1/1997	KNBT	MHX	ER	ER	Piney Island	BT-11 Bombing Range
KNCA	ASOS	NAVY	3/11/1995	KNCA	MHX	ER	ER	Jacksonville	New River MCAS
KNFE	ASOS	NAVY	12/7/1995	KNFE	AKQ	ER	ER	Fentress	Fentress (NALF)
KNGU	ASOS	NAVY	12/1/1995	KNGU	AKQ	ER	ER	Norfolk	Norfolk NAS
KNHK	ASOS	NAVY	1/14/1997	KNHK	LWX	ER	ER	Patuxent River	Patuxent River NAS (Trapnell Field)
KNHZ	ASOS	NAVY	2/1/1997	KNHZ	GYX	ER	ER	Brunswick	Brunswick NAS Airport
KNIS	ASOS	NAVY	6/16/1995	KNIS	MHX	ER	ER	Cherry Point	Cherry Point MCAS

Procurement Sensitive

Rev. August 7, 2002

TE-8-16

Performance Work Statement

TECHNICAL EXHIBIT 8

AUTOMATED SERVICE OBSERVING SYSTEMS

EQUIP_ID	SYSTEM	AGENCY	COMMISSION DATE	SITE_ID	WFO/CWA	REG	REG	LOCATION	AIRPORT NAME
KNJM	ASOS	NAVY	3/11/1995	KNJM	MXH	ER	ER	Swansboro	Bogue Field (MCALF)
KNKT	ASOS	NAVY	2/10/1995	KNKT	MXH	ER	ER	Cherry Point	Cherry Point MCAS
KNLT	ASOS	NAVY	11/24/1993	KNLT	MXH	ER	ER	Atlantic	
KNTU	ASOS	NAVY	4/24/1996	KNTU	AKQ	ER	ER	Virginia Beach	Oceana NAS
KNUI	ASOS	NAVY	6/4/1996	KNUI	LWX	ER	ER	St. Inigoes	Webster Field
KNXX	ASOS	NAVY	6/16/1995	KNXX	PHI	ER	ER	Willow Grove	Willow Grove NAS
KNYG	ASOS	NAVY	6/16/1995	KNYG	LWX	ER	ER	Quantico	Quantico MCAS
LBT	ASOS	FAA	9/16/1998	LBT	ILM	ER	ER	Lumberton	Lumberton Municipal Airport
LEB	ASOS	FAA	5/13/1998	LEB	GYX	ER	ER	Lebanon	Lebanon Municipal Airport
LGA	ASOS	NWS	5/1/1996	LGA	OKX	ER	ER	New York	LaGuardia Airport
LHQ	ASOS	FAA	3/20/1996	LHQ	ILN	ER	ER	Lancaster	Fairfield County Airport
LNS	ASOS	FAA	3/17/1999	LNS	CTP	ER	ER	Lancaster	Lancaster Airport
LPR	ASOS	FAA	4/25/1997	LPR	CLE	ER	ER	Lorain/Elyria	Lorain County Regional Airport
LUK	ASOS	FAA	8/13/1997	LUK	ILN	ER	ER	Cincinnati	Cincinnati Municipal Airport (Lunken)
LWM	ASOS	FAA	5/15/1997	LWM	BOX	ER	ER	Lawrence	Lawrence Municipal Airport
LYH	ASOS	NWS	8/1/1996	LYH	RNK	ER	ER	Lynchburg	Lynchburg Regional/Preston Glenn
MDT	ASOS	FAA	12/1/2000	MDT	CTP	ER	ER	Harrisburg	Harrisburg Int'l. Airport
MEB	ASOS	FAA	6/24/1998	MEB	RAH	ER	ER	Maxton	Laurinburg - Maxton Airport
MFD	ASOS	NWS	2/1/1996	MFD	CLE	ER	ER	Mansfield	Mansfield Lahm Municipal Airport
MGJ	ASOS	FAA	12/17/1997	MGJ	OKX	ER	ER	Montgomery	Orange County Airport
MGW	ASOS	FAA	1/6/1999	MGW	PBZ	ER	ER	Morgantown	Morgantown Municipal/Walter L. Bill
MGY	ASOS	FAA	10/15/1997	MGY	ILN	ER	ER	Dayton	Dayton - Wright Brothers Airport
MHT	ASOS	FAA	11/14/1997	MHT	GYX	ER	ER	Manchester	Manchester Airport
MIV	ASOS	FAA	2/17/1999	MIV	PHI	ER	ER	Millville	Millville Municipal Airport
MLT	ASOS	FAA	9/20/1995	MLT	CAR	ER	ER	Millinocket	Millinocket Municipal Airport
MMK	ASOS	FAA	8/4/1999	MMK	OKX	ER	ER	Meriden	Meriden Markham Municipal Airport

Procurement Sensitive

Rev. August 7, 2002

TE-8-17

Performance Work Statement

TECHNICAL EXHIBIT 8

AUTOMATED SERVICE OBSERVING SYSTEMS

EQUIP_ID	SYSTEM	AGENCY	COMMISSION DATE	SITE_ID	WFO/CWA	REG	REG	LOCATION	AIRPORT NAME
MNN	ASOS	FAA	5/6/1998	MNN	CLE	ER	ER	Marion	Marion Municipal Airport
MPO	ASOS	FAA	9/29/1999	MPO	PHI	ER	ER	Mt. Pocono	Pocono Mountains Municipal Airport
MPV	ASOS	FAA	6/18/1996	MPV	BTX	ER	ER	Barre/Montpelier	Edward F. Knapp State Airport
MQE	OT-ASOS	NWS	10/15/1998	MQE	BOX	ER	ER	East Milton	Blue Hill Observatory
MRB	ASOS	FAA	11/29/2000	MRB	LWX	ER	ER	Martinsburg	Eastern WV Regional - Shepherd Airport
MRH	ASOS	FAA	4/26/2000	MRH	MHX	ER	ER	Beaufort	Michael J. Smith Field
MSS	ASOS	FAA	9/13/2000	MSS	BTX	ER	ER	Massena	Massena Int'l. Airport (Richards Field)
MTP	OT-ASOS	NWS	9/1/1998	MTP	OKX	ER	ER	Montauk	Montauk Airport
MVL	ASOS	FAA	11/15/1995	MVL	BTX	ER	ER	Morrisville	Morrisville - Stowe State Airport
MVY	ASOS	FAA	6/17/1997	MVY	BOX	ER	ER	Vineyard Haven	Marthas Vineyard Airport
NEXC	ASOS	NAVY	7/18/1992	NEXC	CHS	ER	ER	Charleston	Navelexcen
NYC	OT-ASOS	NWS	11/1/1995	NY.A1	OKX	ER	ER	New York City	Central Park
OFP	ASOS	FAA	3/15/1995	OFP	AKQ	ER	ER	Richmond/Ashland	Hanover County Municipal Airport
OGB	ASOS	FAA	3/20/1997	OGB	CAE	ER	ER	Orangeburg	Orangeburg Municipal Airport
ORE	ASOS	FAA	5/24/1995	ORE	BOX	ER	ER	Orange	Orange Municipal Airport
ORF	ASOS	NWS	3/1/1996	ORF	AKQ	ER	ER	Norfolk	Norfolk Int'l. Airport
ORH	ASOS	NWS	7/1/1995	ORH	BOX	ER	ER	Worcester	Worcester Regional Airport
OSU	ASOS	FAA	10/8/1997	OSU	ILN	ER	ER	Columbus	Ohio State Univ. Airport
OWD	ASOS	FAA	6/3/1998	OWD	BOX	ER	ER	Norwood	Norwood Memorial Airport
OXB	ASOS	FAA	9/1/1999	OXB	AKQ	ER	ER	Ocean City	Ocean City Municipal Airport
PEO	ASOS	FAA	12/10/1997	PEO	BGM	ER	ER	Penn Yan	Penn Yan Airport
PHD	ASOS	FAA	1/28/1998	PHD	PBZ	ER	ER	New Philadelphia	Harry Clever Field
PHF	ASOS	FAA	12/13/2000	PHF	AKQ	ER	ER	Newport News	Newport News - Williamsburg Int'l.
PHL	ASOS	NWS	12/1/1995	PHL	PHI	ER	ER	Philadelphia	Philadelphia Int'l. Airport
PIT	ASOS	NWS	7/1/1996	PIT	PBZ	ER	ER	Pittsburgh	Pittsburgh Int'l. Airport
PKB	ASOS	FAA	11/8/2000	PKB	RLX	ER	ER	Parkersburg	Wood County Airport (Gill Robb Wilson)

Procurement Sensitive

Rev. August 7, 2002

TE-8-18

Performance Work Statement

TECHNICAL EXHIBIT 8

AUTOMATED SERVICE OBSERVING SYSTEMS

EQUIP_ID	SYSTEM	AGENCY	COMMISSION DATE	SITE_ID	WFO/CWA	REG	REG	LOCATION	AIRPORT NAME
PLB	ASOS	FAA	7/1/1998	PLB	BTW	ER	ER	Plattsburgh	Clinton County Airport
PNE	ASOS	NWS	5/1/1996	PNE	PHI	ER	ER	Philadelphia	Northeast Philadelphia Airport
POU	ASOS	FAA	9/27/2000	POU	ALY	ER	ER	Poughkeepsie	Dutchess County Airport
PSF	ASOS	FAA	1/20/1999	PSF	ALY	ER	ER	Pittsfield	Pittsfield Municipal Airport
PTW	ASOS	FAA	3/3/1999	PTW	PHI	ER	ER	Pottstown	Pottstown Limerick Airport
PVD	ASOS	NWS	9/1/1995	PVD	BOX	ER	ER	Providence	Theodore Francis Green State Airport
PWM	ASOS	NWS	8/1/1994	PWM	GYX	ER	ER	Portland	Portland Int'l. Jetport
PYM	ASOS	FAA	5/12/1995	PYM	BOX	ER	ER	Plymouth	Plymouth Municipal Airport
RDG	ASOS	FAA	2/17/1999	RDG	PHI	ER	ER	Reading	Reading Regional Airport (Carl A.)
RDU	ASOS	NWS	2/1/1996	RDU	RAH	ER	ER	Raleigh/Durham	Raleigh - Durham Int'l. Airport
RIC	ASOS	NWS	10/1/1995	RIC	AKQ	ER	ER	Richmond	Richmond Int'l. Airport
ROA	ASOS	NWS	5/1/1996	ROA	RNK	ER	ER	Roanoke	Roanoke Regional Airport (Woodrum)
ROC	ASOS	NWS	7/1/1996	ROC	BUF	ER	ER	Rochester	Greater Rochester Int'l. Airport
RWI	ASOS	FAA	10/11/2000	RWI	RAH	ER	ER	Rocky Mount	Rocky Mount - Wilson Regional Airport
RZZ	ASOS	FAA	5/13/1998	RZZ	RAH	ER	ER	Roanoke Rapids	Halifax County Airport
SBY	ASOS	FAA	5/9/2001	SBY	AKQ	ER	ER	Salisbury	Salisbury - Ocean City - Wicomico
SEG	ASOS	FAA	8/13/1997	SEG	CTP	ER	ER	Selinsgrove	Penn Valley Airport
SLK	ASOS	FAA	6/10/1998	SLK	BTW	ER	ER	Saranac Lake	Adirondack Regional Airport
SMQ	ASOS	FAA	6/2/1999	SMQ	PHI	ER	ER	Somerville	Somerset Airport
SYR	ASOS	NWS	11/1/1993	SYR	BGM	ER	ER	Syracuse	Syracuse Hancock Int'l. Airport
TAN	ASOS	FAA	11/5/1997	TAN	BOX	ER	ER	Taunton	Taunton Municipal Airport
TDZ	ASOS	FAA	12/17/1997	TDZ	CLE	ER	ER	Toledo	Metcalf Field
TEB	ASOS	NWS	1/1/1997	TEB	OKX	ER	ER	Teterboro	Teterboro Airport
THV	ASOS	FAA	8/13/1997	THV	CTP	ER	ER	York	York Airport
TOL	ASOS	NWS	12/1/1995	TOL	CLE	ER	ER	Toledo	Toledo Express Airport
TTN	ASOS	FAA	3/11/1998	TTN	PHI	ER	ER	Trenton	Trenton Mercer Airport

Procurement Sensitive

Rev. August 7, 2002

TE-8-19

Performance Work Statement

TECHNICAL EXHIBIT 8

AUTOMATED SERVICE OBSERVING SYSTEMS

EQUIP_ID	SYSTEM	AGENCY	COMMISSION DATE	SITE_ID	WFO/CWA	REG	REG	LOCATION	AIRPORT NAME
UCA	ASOS	FAA	1/31/2001	UCA	BGM	ER	ER	Utica	Oneida County Airport
UUU	ASOS	FAA	2/29/1996	UUU	BOX	ER	ER	Newport	Newport State Airport
UZA	ASOS	FAA	1/20/1999	UZA	GSP	ER	ER	Rock Hill	Rock Hill-York County Airport
VAY	ASOS	FAA	11/5/1997	VAY	PHI	ER	ER	Mount Holly	South Jersey Regional Airport
VSF	ASOS	FAA	8/23/1995	VSF	BTU	ER	ER	Springfield	Hartness State (Springfield) Airport
VTA	ASOS	FAA	2/24/1999	VTA	ILN	ER	ER	Newark	Newark - Heath Airport
WAL	ASOS	NWS	9/1/1996	WAL	AKQ	ER	ER	Wallops Island	Wallops Flight Facility Airport
WST	ASOS	FAA	7/28/1999	WST	BOX	ER	ER	Westerly	Westerly State Airport
YNG	ASOS	NWS	9/1/1995	YNG	CLE	ER	ER	Youngstown/Warren	Youngstown - Warren Regional Airport
ZZV	ASOS	FAA	9/13/2000	ZZV	PBZ	ER	ER	Zanesville	Zanesville Municipal Airport
BRADS	ASOS	USAF	4/2/1998	BRADS	HFO	PR	PR	Bradshaw Army Air Field	Bradshaw AAF
HNL	ASOS	NWS	2/1/1998	HNL	HFO	PR	PR	Honolulu	Honolulu Int'l. Airport
ITO	ASOS	NWS	1/1/1998	ITO	HFO	PR	PR	Hilo	Hilo Int'l. Airport
KOA	ASOS	FAA	12/31/1997	KOA	HFO	PR	PR	Kailua/Kona	Kona Int'l. at Keahole Airport
LIH	ASOS	NWS	12/1/1997	LIH	HFO	PR	PR	Lihue	Lihue Airport
MKK	OT-ASOS	NWS	6/1/1999	MKK	HFO	PR	PR	Kaunakakai	Molokai Airport
OGG	ASOS	NWS	3/1/1998	OGG	HFO	PR	PR	Kahului	Kahului Airport
PGSN	OT-ASOS	NWS	1/11/2000	PGSN	PGUM	PR	PR	Saipan Island	Saipan Int'l. Airport
PGUM	ASOS	NWS	1/11/2000	GUM	PGUM	PR	PR	Agana	Guam Int'l. Airport
PHBK	ASOS	NAVY	4/15/1994	PHBK	HFO	PR	PR	Kekaha	Pacific Missile Test Facility, Barking
PHNG	ASOS	NAVY	4/29/1994	PHNG	HFO	PR	PR	Kaneohe	Kaneohe Bay MCAS
40J	OT-ASOS	NWS	2/27/1998	40J	TAE	SR	SR	Perry-Foley	Perry-Foley Airport
6R6	OT-ASOS	NWS	6/15/1999	6R6	MAF	SR	SR	Dryden	Terrel County Airport
79J	ASOS	USAF	11/3/1995	79J	MOB	SR	SR	Andalusia	Andalusia Municipal Airport
AAF	OT-ASOS	NWS	7/31/1998	AAF	TAE	SR	SR	Apalachicola	Apalachicola Municipal Airport
ABI	ASOS	NWS	5/1/1996	ABI	SJT	SR	SR	Abilene	Abilene Regional Airport

Procurement Sensitive

Rev. August 7, 2002

TE-8-20

Performance Work Statement

TECHNICAL EXHIBIT 8

AUTOMATED SERVICE OBSERVING SYSTEMS

EQUIP_ID	SYSTEM	AGENCY	COMMISSION DATE	SITE_ID	WFO/CWA	REG	REG	LOCATION	AIRPORT NAME
ABQ	ASOS	NWS	3/1/1996	ABQ	ABQ	SR	SR	Albuquerque	Albuquerque Int'l. Sunport Airport
ABY	ASOS	FAA	1/17/2001	ABY	TAE	SR	SR	Albany	Southwest Georgia Regional Airport
ACT	ASOS	NWS	7/1/1993	ACT	FWD	SR	SR	Waco	Waco Regional Airport
AEX	ASOS	FAA	7/20/1999	AEX	LCH	SR	SR	Alexandria	Alexandria Int'l. Airport
AFW	ASOS	FAA	7/25/1997	AFW	FWD	SR	SR	Fort Worth	Fort Worth Alliance Airport
AGS	ASOS	NWS	5/1/1994	AGS	CAE	SR	SR	Augusta	Bush Field
AHN	ASOS	NWS	2/1/1996	AHN	FFC	SR	SR	Athens	Athens - Ben Epps Airport
ALI	ASOS	FAA	1/10/2001	ALI	CRP	SR	SR	Alice	Alice Int'l. Airport
AMA	ASOS	NWS	11/1/1992	AMA	AMA	SR	SR	Amarillo	Amarillo Int'l. Airport
AMG	ASOS	FAA	12/13/2000	AMG	JAX	SR	SR	Alma	Bacon County Airport
ANB	ASOS	FAA	6/17/1998	ANB	BMX	SR	SR	Anniston	Anniston Metropolitan Airport
APF	ASOS	FAA		APF	MFL	SR	SR	Naples	Naples Municipal Airport
ARA	ASOS	FAA	5/5/1998	ARA	LCH	SR	SR	New Iberia	Acadiana Regional Airport
ASD	ASOS	FAA	6/24/1998	ASD	LIX	SR	SR	Slidell	Slidell Airport
ATL	ASOS	NWS	8/1/1995	ATL	FFC	SR	SR	Atlanta	The William B. Hartsfield Atlanta
ATT	ASOS	NWS	7/1/1995	ATT	EWX	SR	SR	Austin	Old Robert Mueller Municipal Airport
AUS	ASOS	FAA	10/2/1997	AUS	EWX	SR	SR	Austin	Austin - Bergstrom Int'l. Airport
BAZ	ASOS	FAA	2/29/1996	BAZ	EWX	SR	SR	New Braunfels	New Braunfels Municipal Airport
BFM	ASOS	FAA	9/5/1996	BFM	MOB	SR	SR	Mobile	Mobile Downtown Airport
BGD	ASOS	FAA	12/19/1995	BGD	AMA	SR	SR	Borger	Hutchinson County Airport
BHM	ASOS	FAA	9/25/1998	BHM	BMX	SR	SR	Birmingham	Birmingham Int'l. Airport
BIX1	ASOS	NAVY		BIX1	LIX	SR	SR	Biloxi	Keesler AFB
BIX2	ASOS	NAVY		BIX2	LIX	SR	SR	Biloxi	Keesler AFB
BIX3	ASOS	NAVY		BIX3	LIX	SR	SR	Biloxi	Keesler AFB
BKV	ASOS	FAA	5/24/1995	BKV	TBW	SR	SR	Brooksville	Hernando County Airport
BMQ	ASOS	FAA	7/12/1996	BMQ	EWX	SR	SR	Burnet	Burnet Municipal Airport (Kate)

Procurement Sensitive

Rev. August 7, 2002

TE-8-21

Performance Work Statement

TECHNICAL EXHIBIT 8

AUTOMATED SERVICE OBSERVING SYSTEMS

EQUIP_ID	SYSTEM	AGENCY	COMMISSION DATE	SITE_ID	WFO/CWA	REG	REG	LOCATION	AIRPORT NAME
BNA	ASOS	NWS	6/1/1996	BNA	OHX	SR	SR	Nashville	Nashville Int'l. Airport
BPK	ASOS	FAA	10/22/1998	BPK	LZK	SR	SR	Mountain Home	Baxter County Regional Airport
BPT	ASOS	NWS	7/1/1995	BPT	LCH	SR	SR	Beaumont/Port Arthur	Jefferson County Airport
BRO	ASOS	NWS	5/1/1994	BRO	BRO	SR	SR	Brownsville	Brownsville - South Padre Island
BTR	ASOS	NWS	5/1/1993	BTR	LIX	SR	SR	Baton Rouge	Baton Rouge Metropolitan Airport (Ryan)
BVE	OT-ASOS	NWS	6/30/1999	BVE	LIX	SR	SR	Bootheville	Petroleum Helicopters, Inc Heliport
BVO	ASOS	FAA	11/9/1999	BVO	TSA	SR	SR	Bartlesville	Bartlesville Municipal Airport
CAO	ASOS	NWS	6/1/1996	CAO	ABQ	SR	SR	Clayton	Clayton Municipal Airpark
CCAS1	ASOS	USAF	6/13/1997	XMR	MLB	SR	SR	Cocoa Beach	Cape Canaveral AS Skid Strip
CDS	ASOS	FAA	7/31/1996	CDS	LUB	SR	SR	Childress	Childress Municipal Airport
CEW	ASOS	FAA	7/1/1997	CEW	MOB	SR	SR	Crestview	Bob Sikes Airport
CHA	ASOS	NWS	9/1/1995	CHA	MRX	SR	SR	Chattanooga	Lovell Field
CKV	ASOS	FAA	4/10/2001	CKV	OHX	SR	SR	Clarksville	Outlaw Field
CLL	ASOS	FAA	12/10/1996	CLL	HGX	SR	SR	College Station	Easterwood Field
CNM	ASOS	FAA	11/29/2000	CNM	MAF	SR	SR	Carlsbad	Cavern City Air Terminal
COT	ASOS	FAA	1/10/2001	COT	CRP	SR	SR	Cotulla	Cotulla - La Salle County Airport
CQC	OT-ASOS	NWS	5/27/1998	CQC	ABQ	SR	SR	Clines Corners	Clines Corners
CRG	ASOS	FAA	11/25/1997	CRG	JAX	SR	SR	Jacksonville	Craig Municipal Airport
CRP	ASOS	NWS	12/1/1995	CRP	CRP	SR	SR	Corpus Christi	Corpus Christi Int'l. Airport
CRS	ASOS	FAA	5/20/1997	CRS	FWD	SR	SR	Corsicana	Corsicana Airport (C. David Campbell)
CSG	ASOS	NWS	5/1/1994	CSG	FFC	SR	SR	Columbus	Columbus Metropolitan Airport
CSM	ASOS	FAA	10/15/1996	CSM	OUN	SR	SR	Clinton	Clinton - Sherman Airport
CSV	ASOS	FAA	10/4/2000	CSV	OHX	SR	SR	Crossville	Crossville Memorial Airport (Whitson)
CTY	OT-ASOS	NWS	2/27/1998	CTY	TAE	SR	SR	Cross City	Cross City Airport
CXO	ASOS	FAA	12/10/1996	CXO	HGX	SR	SR	Conroe	Montgomery County Airport
DAB	ASOS	NWS	6/1/1995	DAB	MLB	SR	SR	Daytona Beach	Daytona Beach Int'l. Airport

Procurement Sensitive

Rev. August 7, 2002

TE-8-22

Performance Work Statement

TECHNICAL EXHIBIT 8

AUTOMATED SERVICE OBSERVING SYSTEMS

EQUIP_ID	SYSTEM	AGENCY	COMMISSION DATE	SITE_ID	WFO/CWA	REG	REG	LOCATION	AIRPORT NAME
DAL	ASOS	FAA	11/19/1997	DAL	FWD	SR	SR	Dallas	Dallas Love Field
DCU	ASOS	FAA	10/23/1996	DCU	BMX	SR	SR	Decatur	Pryor Field Regional Airport
DEQ	ASOS	FAA	7/12/2001	DEQ	SHV	SR	SR	De Queen	J. Lynn Helms - Sevier County Airport
DFW	ASOS	NWS	12/1/1995	DFW	FWD	SR	SR	Dallas/Fort Worth	Dallas - Fort Worth Int'l. Airport
DHN	ASOS	FAA	6/27/2001	DHN	TAE	SR	SR	Dothan	Dothan Airport
DHT	ASOS	FAA	9/20/2000	DHT	AMA	SR	SR	Dalhart	Dalhart Municipal Airport
DLF	ASOS	USAF	4/13/1996	DLF	EWX	SR	SR	Del Rio	Laughlin AFB
DMN	ASOS	FAA	8/30/2000	DMN	EPZ	SR	SR	Deming	Deming Municipal Airport
DNL	ASOS	FAA	12/5/1995	DNL	CAE	SR	SR	Augusta	Daniel Field
DRT	ASOS	NWS	4/1/1996	DRT	EWX	SR	SR	Del Rio	Del Rio Int'l. Airport
DTN	ASOS	FAA	5/1/1997	DTN	SHV	SR	SR	Shreveport	Shreveport Downtown Airport
DTO	ASOS	FAA	7/26/1995	DTO	FWD	SR	SR	Denton	Denton Municipal Airport
DTS	ASOS	FAA	11/6/1996	DTS	MOB	SR	SR	Destin	Destin - Fort Walton Beach Airport
DWH	ASOS	FAA	12/9/1997	DWH	HGX	SR	SR	Houston	David Wayne Hooks Memorial Airport
EET	ASOS	FAA	6/17/1998	EET	BMX	SR	SR	Alabaster	Shelby County Airport
ELD	ASOS	FAA	11/1/2000	ELD	SHV	SR	SR	El Dorado	South Arkansas Regional at Goodwin
ELP	ASOS	NWS	6/1/1995	ELP	EPZ	SR	SR	El Paso	El Paso Int'l. Airport
ESF	ASOS	FAA	4/30/1996	ESF	LCH	SR	SR	Alexandria	Alexandria Esler Regional Airport
EYW	ASOS	NWS	3/1/1996	EYW	EYW	SR	SR	Key West	Key West Int'l. Airport
FDR	ASOS	FAA	1/28/1998	FDR	OUN	SR	SR	Frederick	Frederick Municipal Airport (Altus AFB)
FFC	ASOS	FAA	9/26/1995	FFC	FFC	SR	SR	Atlanta	Peachtree City Airport (Falcon Field)
FLL	ASOS	FAA	9/9/1998	FLL	MFL	SR	SR	Fort Lauderdale	Fort Lauderdale - Hollywood Int'l.
FMN	OT-ASOS	NWS	12/10/1997	FMN	ABQ	SR	SR	Farmington	Four Corners Regional Airport
FMY	ASOS	FAA	6/10/1998	FMY	TBW	SR	SR	Cape Coral	Page Field (Ft. Myers)
FPR	ASOS	FAA	7/28/1999	FPR	MLB	SR	SR	Fort Pierce	St. Lucie County Int'l. Airport
FSM	ASOS	NWS	8/1/1994	FSM	TSA	SR	SR	Fort Smith	Fort Smith Regional Airport

Procurement Sensitive

Rev. August 7, 2002

TE-8-23

Performance Work Statement

TECHNICAL EXHIBIT 8

AUTOMATED SERVICE OBSERVING SYSTEMS

EQUIP_ID	SYSTEM	AGENCY	COMMISSION DATE	SITE_ID	WFO/CWA	REG	REG	LOCATION	AIRPORT NAME
FST	ASOS	FAA	12/6/1995	FST	MAF	SR	SR	Fort Stockton	Fort Stockton - Pecos County Airport
FTPK1	ASOS	USAF	7/10/1997	LA-A1	SHV	SR	SR	Ft Polk (JTRTC)	Eagle Hill
FTPK2	ASOS	USAF	7/10/1997	LA-A2	LCH	SR	SR	Ft Polk (JTRTC)	Geronimo
FTPK3	ASOS	USAF	7/10/1997	LA-A3	LCH	SR	SR	Ft Polk (JTRTC)	Range 42
FTW	ASOS	FAA	9/23/1997	FTW	FWD	SR	SR	Fort Worth	Fort Worth Meacham Int'l. Airport
FTY	ASOS	FAA	10/28/1998	FTY	FFC	SR	SR	Atlanta	Fulton County Airport (Brown Field)
FXE	ASOS	FAA	6/24/1998	FXE	MFL	SR	SR	Fort Lauderdale	Fort Lauderdale Executive Airport
FYV	ASOS	FAA	5/13/1997	FYV	TSA	SR	SR	Fayetteville	Drake Field
GAG	ASOS	FAA	10/31/1996	GAG	OUN	SR	SR	Gage	Gage Airport
GDP	OT-ASOS	NWS	6/15/1999	GDP	MAF	SR	SR	Pine Springs	Guadalupe Mountains National Park
GGG	ASOS	FAA	5/20/1998	GGG	SHV	SR	SR	Longview	Gregg County Airport
GIF	ASOS	FAA	6/30/1995	GIF	TBW	SR	SR	Winter Haven	Winter Haven's Gilbert Airport
GKY	ASOS	FAA	7/22/1997	GKY	FWD	SR	SR	Arlington	Arlington Municipal Airport
GLH	ASOS	FAA	8/15/2001	GLH	JAN	SR	SR	Greenville	Mid Delta Regional Airport
GLS	ASOS	FAA	11/29/1996	GLS	HGX	SR	SR	Galveston	Scholes Field
GNT	OT-ASOS	NWS	10/1/1997	GNT	ABQ	SR	SR	Grants	Grants - Milan Municipal Airport
GNV	ASOS	FAA	8/12/1998	GNV	JAX	SR	SR	Gainesville	Gainesville Regional Airport
GOK	ASOS	FAA	4/9/1998	GOK	OUN	SR	SR	Guthrie	Guthrie Municipal Airport
GPT	ASOS	FAA	8/12/1998	GPT	LIX	SR	SR	Gulfport	Gulfport - Biloxi Regional Airport
GUP	ASOS	FAA	10/11/2000	GUP	ABQ	SR	SR	Gallup	Gallup Municipal Airport
GUY	OT-ASOS	NWS	12/1/1998	GUY	AMA	SR	SR	Guymon	Guymon Municipal Airport
GVL	ASOS	FAA	10/17/1995	GVL	FFC	SR	SR	Gainesville	Lee Gilmer Memorial Airport
GWO	ASOS	FAA	6/3/1997	GWO	JAN	SR	SR	Greenwood	Greenwood - Leflore Airport
GZH	ASOS	FAA	3/31/1997	GZH	MOB	SR	SR	Evergreen	Middleton Field
HBG	ASOS	FAA	5/10/2000	HBG	JAN	SR	SR	Hattiesburg	Bobby L. Chain Municipal Airport
HBR	ASOS	FAA	7/31/1996	HBR	OUN	SR	SR	Hobart	Hobart Municipal Airport

Procurement Sensitive

Rev. August 7, 2002

TE-8-24

Performance Work Statement

TECHNICAL EXHIBIT 8

AUTOMATED SERVICE OBSERVING SYSTEMS

EQUIP_ID	SYSTEM	AGENCY	COMMISSION DATE	SITE_ID	WFO/CWA	REG	REG	LOCATION	AIRPORT NAME
HDO	ASOS	FAA	3/15/1996	HDO	EWX	SR	SR	Hondo	Hondo Municipal Airport
HKA	ASOS	FAA	10/28/1998	HKA	MEG	SR	SR	Blytheville	Blytheville Municipal Airport
HKS	ASOS	FAA	7/20/2000	HKS	JAN	SR	SR	Jackson	Hawkins Field
HOT	ASOS	FAA	12/20/2000	HOT	LZK	SR	SR	Hot Springs	Memorial Field
HOU	ASOS	FAA	8/12/1998	HOU	HGX	SR	SR	Houston	William P. Hobby Airport
HRL	ASOS	FAA	11/25/1996	HRL	BRO	SR	SR	Harlingen	Rio Grande Valley Int'l. Airport
HRO	ASOS	FAA	9/13/2000	HRO	LZK	SR	SR	Harrison	Boone County Airport
HSV	ASOS	NWS	8/1/1994	HSV	BMX	SR	SR	Huntsville	Huntsville Int'l. Airport (Carl T.)
HWO	ASOS	FAA	4/21/1999	HWO	MFL	SR	SR	Hollywood	North Perry Airport
IAH	ASOS	NWS	6/1/1996	IAH	HGX	SR	SR	Houston	George Bush Intercontinental Airport
IKR	ASOS	USAF	3/16/1996	IKR	ABQ	SR	SR	Albuquerque	Kirtland AFB Auxiliary Field (Heliport)
INK	ASOS	FAA	11/29/2000	INK	MAF	SR	SR	Wink	Winkler County Airport
JAN	ASOS	NWS	7/1/1993	JAN	JAN	SR	SR	Jackson	Jackson Int'l. Airport
JAX	ASOS	NWS	3/1/1996	JAX	JAX	SR	SR	Jacksonville	Jacksonville Int'l. Airport
JBR	ASOS	FAA	10/28/1998	JBR	MEG	SR	SR	Jonesboro	Jonesboro Municipal Airport
JCT	OT-ASOS	NWS	12/2/1996	JCT	SJT	SR	SR	Junction	Kimble County Airport
KNAE	ASOS	NAVY	5/16/1995	KNAE	MLB	SR	SR	Pinecastle	Pinecastle
KNBG	ASOS	NAVY	4/12/1995	KNBG	LIX	SR	SR	New Orleans	New Orleans NAS
KNBJ	ASOS	NAVY	7/12/1997	KNBJ	MOB	SR	SR	Barin	Barin NAF
KNBQ	ASOS	NAVY	6/8/1995	KNBQ	JAX	SR	SR	Kings Bay	Kings Bay Naval Station
KNDZ	ASOS	NAVY	5/5/1995	KNDZ	MOB	SR	SR	Milton	Whiting Field (2)
KNFJ	ASOS	NAVY	11/24/1993	KNFJ	MOB	SR	SR	Milton	Choctaw Pensacola, NALF
KNFW	ASOS	NAVY	9/7/1996	KNFW	FWD	SR	SR	Fort Worth	Fort Worth NAS
KNGP	ASOS	NAVY	9/21/1993	KNGP	CRP	SR	SR	Corpus Christi	Corpus Christi NAS
KNGW	ASOS	NAVY	9/22/1993	KNGW	CRP	SR	SR	Corpus Christi	Cabiness Field (NALF)
KNIP	ASOS	NAVY	4/10/1996	KNIP	JAX	SR	SR	Jacksonville	Jacksonville NAS

Procurement Sensitive

Rev. August 7, 2002

TE-8-25

Performance Work Statement

TECHNICAL EXHIBIT 8

AUTOMATED SERVICE OBSERVING SYSTEMS

EQUIP_ID	SYSTEM	AGENCY	COMMISSION DATE	SITE_ID	WFO/CWA	REG	REG	LOCATION	AIRPORT NAME
KNJW	ASOS	NAVY	11/11/1993	KNJW	JAN	SR	SR	Meridian Range	Meridian Range (Joe Williams NALF)
KNMM	ASOS	NAVY	6/11/1994	KNMM	JAN	SR	SR	Meridian	Meridian NAS (McCain Field)
KNMT	ASOS	NAVY	5/10/1997	KNMT	CRP	SR	SR	Ingleside	McMullen Target Site
KNOG	ASOS	NAVY	9/24/1993	KNOG	CRP	SR	SR	Orange Grove	Orange Grove (NALF)
KNPA	ASOS	NAVY	5/9/1995	KNPA	MOB	SR	SR	Pensacola	Pensacola NAS
KNQI	ASOS	NAVY	8/25/1994	KNQI	CRP	SR	SR	Kingsville	Kingsville NAS
KNQX	ASOS	NAVY	4/7/1995	KNQX	EYW	SR	SR	Key West	Key West NAS
KNRB	ASOS	NAVY	4/10/1996	KNRB	JAX	SR	SR	Mayport	Mayport NAF
KNSE	ASOS	NAVY	5/5/1995	KNSE	MOB	SR	SR	Milton	Whiting Field (1)
KNVT	ASOS	NAVY	9/23/1993	KNVT	CRP	SR	SR	Corpus Christi	
KNZC	ASOS	NAVY	6/16/1995	KNZC	JAX	SR	SR	Cecil	Cecil NAS
LAW	ASOS	FAA	9/13/1996	LAW	OUN	SR	SR	Lawton	Lawton - Ft. Sill Regional Airport
LBB	ASOS	NWS	9/1/1995	LBB	LUB	SR	SR	Lubbock	Lubbock Int'l. Airport
LBX	ASOS	FAA	5/13/1998	LBX	HGX	SR	SR	Angleton/Lake Jackson	Brazoria County Airport
LCH	ASOS	NWS	1/1/1996	LCH	LCH	SR	SR	Lake Charles	Lake Charles Regional Airport
LEE	ASOS	FAA	8/7/1996	LEE	MLB	SR	SR	Leesburg	Leesburg Regional Airport
LFK	ASOS	FAA	8/23/2000	LFK	SHV	SR	SR	Lufkin	Angelina County Airport
LFT	ASOS	FAA	8/25/1998	LFT	LCH	SR	SR	Lafayette	Lafayette Regional Airport
LIT	ASOS	FAA	10/28/1998	LIT	LZK	SR	SR	Little Rock	Adams Field
LLQ	ASOS	FAA	10/22/1998	LLQ	LZK	SR	SR	Monticello	Monticello Municipal Airport (Ellis)
LOR	ASOS	USAF	5/6/1997	LOR	TAE	SR	SR	Ozark	Lowe AHP (Ft. Rucker)
LVJ	ASOS	FAA	4/10/1997	LVJ	HGX	SR	SR	Houston	Clover Field
LVS	ASOS	FAA	10/11/2000	LVS	ABQ	SR	SR	Las Vegas	Las Vegas Municipal Airport
MAF	ASOS	NWS	3/1/1996	MAF	MAF	SR	SR	Midland	Midland Int'l. Airport
MAI	ASOS	FAA	4/15/1997	MAI	TAE	SR	SR	Marianna	Marianna Municipal Airport
MCB	ASOS	FAA	9/27/2000	MCB	LIX	SR	SR	McComb	McComb - Pike County - John E Lewis

Procurement Sensitive

Rev. August 7, 2002

TE-8-26

Performance Work Statement

TECHNICAL EXHIBIT 8

AUTOMATED SERVICE OBSERVING SYSTEMS

EQUIP_ID	SYSTEM	AGENCY	COMMISSION DATE	SITE_ID	WFO/CWA	REG	REG	LOCATION	AIRPORT NAME
MCN	ASOS	NWS	5/1/1994	MCN	FFC	SR	SR	Macon	Middle Georgia Regional Airport
MCO	ASOS	NWS	7/1/1996	MCO	MLB	SR	SR	Orlando	Orlando Int'l. Airport
MEI	ASOS	NWS	7/1/1995	MEI	JAN	SR	SR	Meridian	Key Field
MEM	ASOS	FAA	4/30/1999	MEM	MEG	SR	SR	Memphis	Memphis Int'l. Airport
MFE	ASOS	FAA	9/30/1996	MFE	BRO	SR	SR	McAllen	McAllen - Miller Int'l. Airport
MGM	ASOS	NWS	7/1/1995	MGM	BMX	SR	SR	Montgomery	Montgomery Regional Airport (Dannelly)
MIA	ASOS	NWS	7/1/1996	MIA	MFL	SR	SR	Miami	Miami Int'l. Airport
MKL	ASOS	FAA	6/3/1997	MKL	MEG	SR	SR	Jackson	McKellar - Sipes Regional Airport
MKO	ASOS	FAA	7/12/1996	MKO	TSA	SR	SR	Muskogee	Davis Field
MLB	ASOS	FAA	2/7/2001	MLB	MLB	SR	SR	Melbourne	Melbourne Int'l. Airport
MLC	ASOS	FAA	7/15/1996	MLC	TSA	SR	SR	McAlester	McAlester Regional Airport
MLU	ASOS	FAA	6/24/1998	MLU	SHV	SR	SR	Monroe	Monroe Regional Airport
MOB	ASOS	NWS	2/1/1996	MOB	MOB	SR	SR	Mobile	Mobile Regional Airport
MSL	ASOS	FAA	4/8/1997	MSL	BMX	SR	SR	Muscle Shoals	Northwest Alabama Regional Airport
MSY	ASOS	NWS	5/1/1996	MSY	LIX	SR	SR	New Orleans	New Orleans Int'l. Airport (Moisant)
MTH	ASOS	FAA	5/14/1998	MTH	EYW	SR	SR	Marathon	Marathon Airport
MWL	ASOS	FAA	12/6/2000	MWL	FWD	SR	SR	Mineral Wells	Mineral Wells Airport
MWT	OT-ASOS	NWS	3/1/1999	MWT	LZK	SR	SR	Mount Ida	Ouachita Seed Orchard
NEW	ASOS	FAA	8/12/1998	NEW	LIX	SR	SR	New Orleans	Lakefront Airport
ODO	ASOS	FAA	12/1/1998	ODO	MAF	SR	SR	Odessa	Odessa - Schlemeyer Field
OKC	ASOS	NWS	10/1/1992	OKC	OUN	SR	SR	Oklahoma City	Will Rogers World Airport
OPF	ASOS	FAA	5/21/1998	OPF	MFL	SR	SR	Miami	Opa Locka Airport
OQT	OT-ASOS	NWS	9/1/1998	OQT	MRX	SR	SR	Oak Ridge	Oak Ridge
ORL	ASOS	FAA	6/10/1998	ORL	MLB	SR	SR	Orlando	Orlando Executive Airport
P92	OT-ASOS	NWS	5/5/1998	P92	LCH	SR	SR	Salt Point	Salt Point Airport
PAFB1	ASOS	USAF	7/8/1997	COF	MLB	SR	SR	Cocoa Beach	Patrick AFB

Procurement Sensitive

Rev. August 7, 2002

TE-8-27

Performance Work Statement

TECHNICAL EXHIBIT 8

AUTOMATED SERVICE OBSERVING SYSTEMS

EQUIP_ID	SYSTEM	AGENCY	COMMISSION DATE	SITE_ID	WFO/CWA	REG	REG	LOCATION	AIRPORT NAME
PBF	ASOS	FAA	9/26/2000	PBF	LZK	SR	SR	Pine Bluff	Grider Field
PBI	ASOS	NWS	4/1/1993	PBI	MFL	SR	SR	West Palm Beach	Palm Beach Int'l. Airport
PDK	ASOS	FAA	3/18/1998	PDK	FFC	SR	SR	Atlanta	Dekalb - Peachtree Airport
PFN	ASOS	FAA	7/16/1998	PFN	TAE	SR	SR	Panama City	Panama City - Bay County Int'l. Airport
PGD	ASOS	FAA	9/20/1996	PGD	TBW	SR	SR	Punta Gorda	Charlotte County Airport
PIE	ASOS	FAA	9/24/1998	PIE	TBW	SR	SR	St.	St. Petersburg/Clearwater Int'l.
PIL	ASOS	FAA	9/17/1998	PIL	BRO	SR	SR	Port Isabel	Port Isabel - Cameron County Airport
PMP	ASOS	FAA	3/12/1998	PMP	MFL	SR	SR	Pompano Beach	Pompano Beach Airpark Airport
PNC	ASOS	FAA	11/8/2000	PNC	OUN	SR	SR	Ponca City	Ponca City Municipal Airport
PNS	ASOS	FAA	11/25/1997	PNS	MOB	SR	SR	Pensacola	Pensacola Regional Airport
PQL	ASOS	FAA	8/14/1997	PQL	LIX	SR	SR	Pascagoula	Trent Lott Int'l. Airport
PSX	ASOS	FAA	10/18/2000	PSX	HGX	SR	SR	Palacios	Palacios Municipal Airport
PWA	ASOS	FAA	7/31/1996	PWA	OUN	SR	SR	Oklahoma City	Wiley Post Airport
RBD	ASOS	FAA	8/26/1997	RBD	FWD	SR	SR	Dallas	Redbird Airport
RKP	ASOS	FAA	2/29/1996	RKP	CRP	SR	SR	Rockport	Aransas County Airport
RMG	OT-ASOS	NWS	3/31/1997	RMG	FFC	SR	SR	Rome	Richard B. Russell Airport
ROW	ASOS	NWS	10/1/1996	ROW	ABQ	SR	SR	Roswell	Roswell Industrial Air Center Airport
RQE	OT-ASOS	NWS	8/18/1998	RQE	PSR	SR	WR	Window Rock	Window Rock Airport
RSW	ASOS	FAA	5/21/1998	RSW	TBW	SR	SR	Fort Myers	Southwest Florida Int'l. Airport
RTN	OT-ASOS	NWS	8/27/1998	RTN	ABQ	SR	SR	Raton	Raton Municipal (Crews Field)
RUE	ASOS	FAA	1/12/1999	RUE	LZK	SR	SR	Russellville	Russellville Regional Airport
RVS	ASOS	FAA	9/4/1997	RVS	TSA	SR	SR	Tulsa	Richard Lloyd Jones Jr. Airport
SAF	ASOS	FAA	10/2/1997	SAF	ABQ	SR	SR	Santa Fe	Santa Fe Municipal Airport
SAT	ASOS	NWS	6/1/1995	SAT	EWX	SR	SR	San Antonio	San Antonio Int'l. Airport
SAV	ASOS	NWS	4/1/1996	SAV	CHS	SR	SR	Savannah	Savannah Int'l. Airport
SFB	ASOS	FAA	2/24/1999	SFB	MLB	SR	SR	Orlando	Orlando Sanford Airport

Procurement Sensitive

Rev. August 7, 2002

TE-8-28

Performance Work Statement

TECHNICAL EXHIBIT 8

AUTOMATED SERVICE OBSERVING SYSTEMS

EQUIP_ID	SYSTEM	AGENCY	COMMISSION DATE	SITE_ID	WFO/CWA	REG	REG	LOCATION	AIRPORT NAME
SGR	ASOS	FAA	12/28/2000	SGR	HGX	SR	SR	Houston	Sugar Land Municipal Airport (Hull)
SHV	ASOS	NWS	10/1/1995	SHV	SHV	SR	SR	Shreveport	Shreveport Regional Airport
SJT	ASOS	NWS	2/1/1996	SJT	SJT	SR	SR	San Angelo	Mathis Field
SJU	ASOS	NWS	5/1/1996	SJU	SJU	SR	SR	San Juan	Luis Munoz Marin Int'l. Airport
SPG	ASOS	FAA	6/17/1998	SPG	TBW	SR	SR	St. Petersburg	Albert Whitted Airport
SPS	ASOS	NWS	5/1/1993	SPS	OUN	SR	SR	Wichita Falls	Sheppard AFB/Wichita Falls Municipal
SRC	ASOS	FAA		SRC	LZK	SR	SR	Searcy	Searcy Municipal Airport
SRQ	ASOS	FAA	3/18/1999	SRQ	TBW	SR	SR	Sarasota/Bradenton	Sarasota - Bradenton Int'l. Airport
SSF	ASOS	FAA	5/13/1998	SSF	EWX	SR	SR	San Antonio	Stinson Municipal Airport
SSI	ASOS	FAA	10/25/2000	SSI	JAX	SR	SR	Brunswick	Malcolm McKinnon Airport
STT	ASOS	FAA	8/10/1998	STT	SJU	SR	SR	Charlotte Amalie St.	Cyril E. King Airport
STX	ASOS	FAA	8/8/2000	STX	SJU	SR	SR	Christiansted St. Croix	Henry E. Rohlsen Airport
SWO	ASOS	FAA	10/15/1996	SWO	OUN	SR	SR	Stillwater	Stillwater Regional Airport
TCC	ASOS	FAA	9/6/2000	TCC	ABQ	SR	SR	Tucumcari	Tucumcari Municipal Airport
TCL	ASOS	FAA	1/7/1999	TCL	BMX	SR	SR	Tuscaloosa	Tuscaloosa Municipal Airport
TCS	ASOS	NWS	9/16/1996	TCS	EPZ	SR	SR	Truth Or Consequences	Truth Or Consequences Municipal Airport
TJNR	ASOS	NAVY	2/1/1997	TJNR	SJU	SR	SR	Roosevelt Roads	Roosevelt Roads NAS
TKI	ASOS	FAA	4/22/1998	TKI	FWD	SR	SR	McKinney	McKinney Municipal Airport
TLH	ASOS	NWS	4/1/1996	TLH	TAE	SR	SR	Tallahassee	Tallahassee Regional Airport
TMB	ASOS	FAA	6/17/1998	TMB	MFL	SR	SR	Miami	Kendall - Tamiami Executive Airport
TOI	ASOS	FAA	10/5/2000	TOI	BMX	SR	SR	Troy	Troy Municipal Airport
TPA	ASOS	NWS	11/1/1995	TPA	TBW	SR	SR	Tampa	Tampa Int'l. Airport
TRI	ASOS	NWS	10/1/1995	TRI	MRX	SR	SR	Bristol/Johnson/Kingsport	Tri-Cities Regional TN/VA Airport
TRL	ASOS	FAA	5/20/1997	TRL	FWD	SR	SR	Terrell	Terrell Municipal Airport
TUL	ASOS	NWS	10/1/1992	TUL	TSA	SR	SR	Tulsa	Tulsa Int'l. Airport
TUP	ASOS	NWS	6/1/1993	TUP	MEG	SR	SR	Tupelo	Tupelo Municipal - C. D. Lemons Airport

Procurement Sensitive

Rev. August 7, 2002

TE-8-29

Performance Work Statement

TECHNICAL EXHIBIT 8

AUTOMATED SERVICE OBSERVING SYSTEMS

EQUIP_ID	SYSTEM	AGENCY	COMMISSION DATE	SITE_ID	WFO/CWA	REG	REG	LOCATION	AIRPORT NAME
TVR	ASOS	FAA	2/29/1996	TVR	JAN	SR	SR	Tallulah/Vicksburg	Vicksburg - Tallulah Regional Airport
TXK	ASOS	FAA	7/12/1996	TXK	SHV	SR	SR	Texarkana	Texarkana Regional Airport (Webb Field)
TYR	ASOS	FAA	5/20/1998	TYR	SHV	SR	SR	Tyler	Tyler Pounds Field
TYS	ASOS	NWS	10/1/1995	TYS	MRX	SR	SR	Knoxville	McGhee Tyson Airport
UTS	ASOS	FAA	2/3/1997	UTS	HGX	SR	SR	Huntsville	Huntsville Municipal Airport
VCT	ASOS	NWS	12/1/1995	VCT	CRP	SR	SR	Victoria	Victoria Regional Airport
VLD	ASOS	FAA	2/27/2001	VLD	TAE	SR	SR	Valdosta	Valdosta Regional Airport
VPC	ASOS	FAA	3/22/2000	VPC	FFC	SR	SR	Cartersville	Cartersville Airport
VRB	ASOS	FAA	7/30/2001	VRB	MLB	SR	SR	Vero Beach	Vero Beach Municipal Airport
XNA	ASOS	FAA	4/28/1999	XNA	TSA	SR	SR	Fayetteville/Springdale	Northwest Arkansas Regional Airport
87Q	OT-ASOS	NWS	9/2/1997	87Q	LOX	WR	WR	Pt. Piedras Blanca	Pt. Piedra Blanca
AAT	OT-ASOS	NWS	6/1/1998	AAT	MFR	WR	WR	Alturas	Alturas Municipal Airport
ACV	ASOS	FAA	2/8/2001	ACV	EKA	WR	WR	Arcata/Eureka	Arcata Airport
ALW	ASOS	FAA	10/23/1998	ALW	PDT	WR	WR	Walla Walla	Walla Walla Regional Airport
APC	ASOS	FAA	5/22/1998	APC	MTR	WR	WR	Napa	Napa County Airport
AST	ASOS	NWS	3/1/1993	AST	PQR	WR	WR	Astoria	Astoria Regional Airport
AVX	ASOS	FAA	6/7/2000	AVX	LOX	WR	WR	Avalon	Catalina Airport
BCE	ASOS	FAA	11/16/2000	BCE	SLC	WR	WR	Bryce Canyon	Bryce Canyon Airport
BFI	ASOS	FAA	12/9/1998	BFI	SEW	WR	WR	Seattle	King County Int'l. Airport (Boeing)
BFL	ASOS	NWS	6/1/1996	BFL	HNX	WR	WR	Bakersfield	Meadows Field Airport
BHK	ASOS	FAA	2/19/1998	BHK	BYZ	WR	WR	Baker	Baker Municipal Airport
BIH	ASOS	NWS	5/1/1995	BIH	VEF	WR	WR	Bishop	Bishop Airport
BIL	ASOS	NWS	5/1/1995	BIL	BYZ	WR	WR	Billings	Billings Logan Int'l. Airport
BKE	ASOS	FAA	10/25/2001	BKE	BOI	WR	WR	Baker	Baker City Municipal Airport
BLH	ASOS	FAA	8/30/2000	BLH	PSR	WR	WR	Blythe	Blythe Airport
BLI	ASOS	FAA	9/17/1998	BLI	SEW	WR	WR	Bellingham	Bellingham Int'l. Airport

Procurement Sensitive

Rev. August 7, 2002

TE-8-30

Performance Work Statement

TECHNICAL EXHIBIT 8

AUTOMATED SERVICE OBSERVING SYSTEMS

EQUIP_ID	SYSTEM	AGENCY	COMMISSION DATE	SITE_ID	WFO/CWA	REG	REG	LOCATION	AIRPORT NAME
BLU	ASOS	NWS	1/31/1993	BLU	STO	WR	WR	Emigrant Gap	Blue Canyon - Nyack Airport
BNO	ASOS	NWS	7/1/1995	BNO	BOI	WR	WR	Burns	Burns Municipal Airport
BOI	ASOS	NWS	12/1/1995	BOI	BOI	WR	WR	Boise	Boise Air Terminal (Gowen Field)
BTM	ASOS	FAA	11/9/2000	BTM	MSO	WR	WR	Butte	Bert Mooney Airport
BUR	ASOS	FAA	5/22/1998	BUR	LOX	WR	WR	Burbank	Burbank - Glendale - Pasadena Airport
BYI	ASOS	FAA	11/8/2000	BYI	PIH	WR	WR	Burley	Burley Municipal Airport
BZN	ASOS	FAA	6/15/1995	BZN	TFX	WR	WR	Bozeman	Gallatin Field
CCR	ASOS	FAA	6/8/1999	CCR	MTR	WR	WR	Concord	Buchanan Field
CDC	ASOS	FAA	5/28/1998	CDC	SLC	WR	WR	Cedar City	Cedar City Regional Airport
CEC	ASOS	FAA	9/13/2000	CEC	EKA	WR	WR	Crescent City	Jack McNamara Field
CLM	ASOS	FAA	10/16/1998	CLM	SEW	WR	WR	Port Angeles	William R. Fairchild Int'l. Airport
CMA	ASOS	FAA	9/29/1999	CMA	LOX	WR	WR	Camarillo	Camarillo Airport
CNO	ASOS	FAA	5/21/1998	CNO	SGX	WR	WR	Chino	Chino Airport
CNY	ASOS	FAA	7/16/1998	CNY	GJT	WR	WR	Moab	Canyonlands Field
CQT	OT-ASOS	NWS	6/24/1999	CQT	LOX	WR	WR	Los Angeles	University of Southern California
CRQ	ASOS	FAA	2/18/1998	CRQ	SGX	WR	WR	Carlsbad	McClellan - Palomar Airport
CTB	ASOS	FAA	1/17/2001	CTB	TFX	WR	WR	Cut Bank	Cut Bank Municipal Airport
CZZ	OT-ASOS	NWS	8/26/1997	CZZ	SGX	WR	WR	Campo	Campo
DAG	ASOS	FAA	8/23/2000	DAG	VEF	WR	WR	Daggett	Barstow - Daggett Airport
DEW	ASOS	FAA	11/5/1998	DEW	OTX	WR	WR	Deer Park	Deer Park Airport
DLN	ASOS	FAA	5/14/1997	DLN	TFX	WR	WR	Dillon	Dillon Airport
DLS	ASOS	FAA	10/26/2000	DLS	PDT	WR	WR	The Dalles	Columbia Gorge Regional/The Dallas
DRA	ASOS	NWS	7/1/1996	DRA	VEF	WR	WR	Mercury	Desert Rock Airport
DUG	ASOS	FAA	9/27/2000	DUG	TWC	WR	WR	Douglas Bisbee	Bisbee Douglas Int'l. Airport
DVT	ASOS	FAA	9/2/1998	DVT	PSR	WR	WR	Phoenix	Phoenix - Deer Valley Municipal Airport
EAFB1	ASOS	USAF	4/5/1997	9L2	LOX	WR	WR	Edwards AFB	North Auxillary Airfield

Procurement Sensitive

Rev. August 7, 2002

TE-8-31

Performance Work Statement

TECHNICAL EXHIBIT 8

AUTOMATED SERVICE OBSERVING SYSTEMS

EQUIP_ID	SYSTEM	AGENCY	COMMISSION DATE	SITE_ID	WFO/CWA	REG	REG	LOCATION	AIRPORT NAME
EAGLE	ASOS	USAF	2/21/1998	EAGLE	SLC	WR	WR	Hill Air Force Base	Eagle Range
EAT	ASOS	FAA	11/30/2000	EAT	OTX	WR	WR	Wenatchee	Pangborn Memorial Airport
EED	ASOS	FAA	1/24/2001	EED	VEF	WR	WR	Needles	Needles Airport
EKO	ASOS	FAA	2/14/2001	EKO	LKN	WR	WR	Elko	Elko Municipal Airport (J.C. Harris)
ELN	ASOS	FAA	7/30/1998	ELN	OTX	WR	WR	Ellensburg	Bowers Field
ELY	ASOS	NWS	6/1/1994	ELY	LKN	WR	WR	Ely	Ely Airport (Yelland Field)
EPH	ASOS	FAA	9/19/2001	EPH	OTX	WR	WR	Ephrata	Ephrata Municipal Airport
EUG	ASOS	NWS	9/1/1995	EUG	PQR	WR	WR	Eugene	Mahlon Sweet Field
EVW	ASOS	FAA	7/29/1999	EVW	SLC	WR	CR	Evanston	Evanston - Uinta County Airport (Burns)
FAT	ASOS	NWS	9/1/1995	FAT	HNX	WR	WR	Fresno	Fresno Yosemite Int'l. Airport
FCA	ASOS	NWS	2/1/1994	FCA	MSO	WR	WR	Kalispell	Glacier Park Int'l. Airport
FHR	ASOS	FAA	12/18/1997	FHR	SEW	WR	WR	Friday Harbor	Friday Harbor Airport
FLG	ASOS	NWS	7/1/1994	FLG	FGZ	WR	WR	Flagstaff	Flagstaff Pulliam Airport
FUL	ASOS	FAA	7/1/1998	FUL	SGX	WR	WR	Fullerton	Fullerton Municipal Airport
GCN	ASOS	FAA	12/1/1993	GCN	FGZ	WR	WR	Grand Canyon	Grand Canyon National Park Airport
GEG	ASOS	NWS	9/1/1995	GEG	OTX	WR	WR	Spokane	Spokane Int'l. Airport
GGW	ASOS	NWS	4/1/1994	GGW	GGW	WR	WR	Glasgow Dugway Proving Grounds	Wokal Field/Glasgow Int'l. Airport Granite Peak
GRNPK	ASOS	USAF	2/26/1998	GRNPK	SLC	WR	WR	Grounds	Granite Peak
GTF	ASOS	NWS	8/1/1994	GTF	TFX	WR	WR	Great Falls	Great Falls Int'l. Airport
HHR	ASOS	FAA	11/10/1998	HHR	LOX	WR	WR	Hawthorne	Hawthorne Municipal Airport (Jack)
HIO	ASOS	FAA	6/18/1998	HIO	PQR	WR	WR	Portland	Portland - Hillsboro Airport
HJO	ASOS	FAA	2/19/1998	HJO	HNX	WR	WR	Hanford	Hanford Municipal Airport
HLN	ASOS	NWS	11/1/1994	HLN	TFX	WR	WR	Helena	Helena Regional Airport
HQM	ASOS	FAA	3/22/2001	HQM	SEW	WR	WR	Hoquiam	Bowerman Airport
HRI	ASOS	FAA	3/13/1998	HRI	PDT	WR	WR	Hermiston	Hermiston Municipal Airport

Procurement Sensitive

Rev. August 7, 2002

TE-8-32

Performance Work Statement

TECHNICAL EXHIBIT 8

AUTOMATED SERVICE OBSERVING SYSTEMS

EQUIP_ID	SYSTEM	AGENCY	COMMISSION DATE	SITE_ID	WFO/CWA	REG	REG	LOCATION	AIRPORT NAME
HVR	ASOS	NWS	4/1/1994	HVR	TFX	WR	WR	Havre	Havre City - County Airport
HWD	ASOS	FAA	9/23/1998	HWD	MTR	WR	WR	Hayward	Hayward Air Terminal
IDA	ASOS	FAA	2/5/1998	IDA	PIH	WR	WR	Idaho Falls	Idaho Falls Regional Airport
IGM	ASOS	NWS	9/1/1995	IGM	VEF	WR	WR	Kingman	Kingman Airport
INW	ASOS	NWS	7/1/1995	INW	FGZ	WR	WR	Winslow	Winslow - Lindbergh Regional Airport
IPL	ASOS	FAA	8/16/2000	IPL	PSR	WR	WR	Imperial	Imperial County Airport
JDN	OT-ASOS	NWS	8/14/1997	JDN	GGW	WR	WR	Jordan	Jordan Airport
JER	ASOS	FAA	12/26/1996	JER	BOI	WR	WR	Jerome	Jerome County Airport
KNFG	ASOS	NAVY	2/27/1997	KNFG	SGX	WR	WR	Oceanside	Camp Pendleton MCAS (Munn Field)
KNFL	ASOS	NAVY	10/12/1995	KNFL	REV	WR	WR	Fallon	Fallon Naval Air Station
KNID	ASOS	NAVY	10/5/1996	KNID	HNX	WR	WR	China Lake	China Lake NAF
KNJK	ASOS	NAVY	2/27/1997	KNJK	PSR	WR	WR	El Centro	El Centro NAF
KNKX	ASOS	NAVY	4/10/1996	KNKX	SGX	WR	WR	San Diego	Miramar NAS
KNLC	ASOS	NAVY	3/27/1997	KNLC	HNX	WR	WR	LeMoore	LeMoore NAS (Reeves Field)
KNRA	ASOS	NAVY	1/6/1995	KNRA	SEW	WR	WR	Coupeville	Outlying Landing Field
KNRS	ASOS	NAVY	4/3/1993	KNRS	SGX	WR	WR	Imperial Beach	Imperial Beach NALF
KNSI	ASOS	NAVY	12/20/1997	KNSI	SGX	WR	WR	San Nicholas Island	San Nicholas Island
KNTD	ASOS	NAVY	3/1/1997	KNTD	LOX	WR	WR	Point Mugu	Naval Air Warfare Center
KNUC	ASOS	NAVY	5/25/1996	KNUC	SGX	WR	WR	San Clemente	San Clemente NALF
KNUQ	ASOS	NAVY	7/12/1994	KNUQ	MTR	WR	WR	Mountain View	Moffett Field NAS
KNUW	ASOS	NAVY	1/6/1995	KNUW	SEW	WR	WR	Whidbey Island	Whidbey Island Naval Air Station
KNXP	ASOS	NAVY	2/1/1997	KNXP	VEF	WR	WR	Twenty Nine Palms	Marine Corps Air-Ground Combat Center
KNYL	ASOS	NAVY	9/22/1994	KNYL	PSR	WR	WR	Yuma	Yuma MCAS
KNZY	ASOS	NAVY	9/7/1996	KNZY	SGX	WR	WR	San Diego	North Island NAS (Halsey Field)
LAS	ASOS	NWS	9/1/1995	LAS	VEF	WR	WR	Las Vegas	McCarran Int'l. Airport
LAX	ASOS	NWS	3/1/1997	LAX	LOX	WR	WR	Los Angeles	Los Angeles Int'l. Airport

Procurement Sensitive

Rev. August 7, 2002

TE-8-33

Performance Work Statement

TECHNICAL EXHIBIT 8

AUTOMATED SERVICE OBSERVING SYSTEMS

EQUIP_ID	SYSTEM	AGENCY	COMMISSION DATE	SITE_ID	WFO/CWA	REG	REG	LOCATION	AIRPORT NAME
LGB	ASOS	NWS	9/1/1996	LGB	LOX	WR	WR	Long Beach	Long Beach Airport (Daugherty Field)
LGU	ASOS	FAA	10/1/1998	LGU	SLC	WR	WR	Logan	Logan - Cache Airport
LLJ	OT-ASOS	NWS	9/22/1998	LLJ	PIH	WR	WR	Challis	Challis Airport
LMNTN	ASOS	USAF	2/26/1998	LMNTN	SLC	WR	WR	Hill Air Force Base	Little Mountain
LMT	ASOS	FAA	10/15/1997	LMT	MFR	WR	WR	Klamath Falls	Klamath Falls Int'l. Airport
LOL	ASOS	FAA	12/6/2000	LOL	REV	WR	WR	Lovelock	Derby Field
LVK	ASOS	FAA	3/31/1998	LVK	MTR	WR	WR	Livermore	Livermore Municipal Airport
LVM	ASOS	FAA	10/25/2000	LVM	BYZ	WR	WR	Livingston	Mission Field
LWS	ASOS	NWS	7/1/1995	LWS	OTX	WR	WR	Lewiston	Lewiston - Nez Perce County Airport
LWT	ASOS	FAA	12/14/2000	LWT	TFX	WR	WR	Lewistown	Lewistown Municipal Airport
MAE	ASOS	FAA	9/2/1998	MAE	HNX	WR	WR	Madera	Madera Municipal Airport
								Malmstrom Air Force	
MALMS	ASOS	USAF	2/26/1998	MALMS	TFX	WR	WR	Base	Malmstrom Air Force Base
MCE	ASOS	FAA	8/6/1998	MCE	HNX	WR	WR	Merced	Merced Municipal Airport (MacReady)
MEH	OT-ASOS	NWS	5/7/1998	MEH	PDT	WR	WR	Meacham	Meacham Airport
MFR	ASOS	NWS	1/1/1998	MFR	MFR	WR	WR	Medford	Rogue Valley Int'l. - Medford Airport
MHS	ASOS	NWS	8/1/1996	MHS	MFR	WR	WR	Mt. Shasta	Mt. Shasta
MLF	ASOS	NWS	8/1/1996	MLF	SLC	WR	WR	Milford	Milford Municipal Airport
MLP	ASOS	FAA	6/19/1996	MLP	MSO	WR	WR	Mullan Pass	Mullan Pass VOR
MLS	ASOS	FAA	11/2/2000	MLS	BYZ	WR	WR	Miles City	Frank Wiley Field
MMV	ASOS	FAA	1/29/1997	MMV	PQR	WR	WR	McMinnville	McMinnville Municipal Airport
MOD	ASOS	FAA	5/13/1998	MOD	STO	WR	WR	Modesto	Modesto City - County - Harry Sham
MRY	ASOS	FAA	3/25/1998	MRY	MTR	WR	WR	Monterey	Monterey Peninsula Airport
MSO	ASOS	NWS	9/1/1996	MSO	MSO	WR	WR	Missoula	Missoula Int'l. Airport
MWH	ASOS	FAA	6/30/1997	MWH	OTX	WR	WR	Moses Lake	Grant County Int'l. Airport
MYF	ASOS	FAA	2/18/1998	MYF	SGX	WR	WR	San Diego	Montgomery Field

Procurement Sensitive

Performance Work Statement

TECHNICAL EXHIBIT 8

AUTOMATED SERVICE OBSERVING SYSTEMS

EQUIP_ID	SYSTEM	AGENCY	COMMISSION DATE	SITE_ID	WFO/CWA	REG	REG	LOCATION	AIRPORT NAME
MYL	OT-ASOS	NWS	9/16/1997	MYL	BOI	WR	WR	McCall	McCall Airport
MYV	ASOS	FAA	10/4/2000	MYV	STO	WR	WR	Marysville	Yuba County Airport
NAFB1	ASOS	USAF	5/2/1997	INS	VEF	WR	WR	Nellis AFB/Las Vegas	Indian Springs AF Aux.
NAFB2	ASOS	USAF	5/2/1997	NV-A1	VEF	WR	WR	Nellis AFB	Nellis AFB Range 74
OAK	ASOS	FAA	1/12/2000	OAK	MTR	WR	WR	Oakland	Metropolitan Oakland Int'l. Airport
OGD	ASOS	FAA	5/6/1998	OGD	SLC	WR	WR	Ogden	Ogden - Hinckley Airport
OKB	ASOS	FAA	5/12/1999	OKB	SGX	WR	WR	Oceanside	Oceanside Municipal Airport
OLF	ASOS	FAA	9/17/1998	OLF	GGW	WR	WR	Wolf Point	L. M. Clayton Airport
OLM	ASOS	NWS	11/1/1995	OLM	SEW	WR	WR	Olympia	Olympia Airport
OLS	ASOS	FAA	7/28/1999	OLS	TWC	WR	WR	Nogales	Nogales Int'l. Airport
OMK	ASOS	FAA	2/17/1998	OMK	OTX	WR	WR	Omak	Omak Airport
ONO	ASOS	FAA	4/9/1997	ONO	BOI	WR	WR	Ontario	Ontario Municipal Airport
ONT	ASOS	FAA	5/27/1998	ONT	SGX	WR	WR	Ontario	Ontario Int'l. Airport
OVE	ASOS	FAA	6/17/1998	OVE	STO	WR	WR	Oroville	Oroville Municipal Airport
OXR	ASOS	FAA	3/4/1998	OXR	LOX	WR	WR	Oxnard	Oxnard Airport
P38	OT-ASOS	NWS	8/7/1997	P38	VEF	WR	WR	Caliente	Caliente
P68	OT-ASOS	NWS	8/13/1997	P68	LKN	WR	WR	Eureka	Eureka
P69	OT-ASOS	NWS	12/24/1996	P69	MSO	WR	WR	Lowell	Lowell Airport
PAE	ASOS	FAA	9/24/1998	PAE	SEW	WR	WR	Everett	Snohomish County Airport (Paine Field)
PDT	ASOS	NWS	6/1/1995	PDT	PDT	WR	WR	Pendleton	Eastern Oregon Regional at Pendleton
PDX	ASOS	NWS	11/1/1995	PDX	PQR	WR	WR	Portland	Portland Int'l. Airport
PGA	ASOS	NWS	3/28/1997	PGA	FGZ	WR	WR	Page	Page Municipal Airport
PHX	ASOS	NWS	3/1/1994	PHX	PSR	WR	WR	Phoenix	Phoenix Sky Harbor Int'l. Airport
PIH	ASOS	NWS	3/1/1996	PIH	PIH	WR	WR	Pocatello	Pocatello Regional Airport
PMD	ASOS	FAA	4/8/1998	PMD	LOX	WR	WR	Palmdale	Palmdale Production Flight/Test Instln
PRB	ASOS	FAA	1/18/2001	PRB	LOX	WR	WR	Paso Robles	Paso Robles Municipal Airport

Procurement Sensitive

Rev. August 7, 2002

TE-8-35

Performance Work Statement

TECHNICAL EXHIBIT 8

AUTOMATED SERVICE OBSERVING SYSTEMS

EQUIP_ID	SYSTEM	AGENCY	COMMISSION DATE	SITE_ID	WFO/CWA	REG	REG	LOCATION	AIRPORT NAME
PRC	ASOS	FAA	2/3/1999	PRC	FGZ	WR	WR	Prescott	Ernest A. Love Field
PSC	ASOS	FAA	1/29/1998	PSC	PDT	WR	WR	Pasco	Tri-Cities Airport
PSP	ASOS	FAA	2/18/1998	PSP	PSR	WR	WR	Palm Springs	Palm Springs Regional Airport
PUC	ASOS	FAA	9/11/1998	PUC	SLC	WR	WR	Price	Carbon County Airport
PUW	ASOS	FAA	6/11/1998	PUW	OTX	WR	WR	Pullman/Moscow	Pullman/Moscow Regional Airport
RAL	ASOS	FAA	7/23/1998	RAL	SGX	WR	WR	Riverside	Riverside Municipal Airport
RBG	ASOS	FAA	6/25/1997	RBG	MFR	WR	WR	Roseburg	Roseburg Regional Airport
RBL	ASOS	NWS	10/1/1995	RBL	STO	WR	WR	Red Bluff	Red Bluff Municipal Airport
RDD	ASOS	NWS	7/1/1996	RDD	STO	WR	WR	Redding	Redding Municipal Airport
RDM	ASOS	FAA	4/20/2000	RDM	PDT	WR	WR	Redmond	Roberts Field
REO	OT-ASOS	NWS	3/18/1998	REO	BOI	WR	WR	Rome	Rome State Airport
RNM	OT-ASOS	NWS	4/16/1998	RNM	SGX	WR	WR	Ramona	Ramona Airport
RNO	ASOS	NWS	9/1/1995	RNO	REV	WR	WR	Reno	Reno - Tahoe Int'l. Airport
RNT	ASOS	FAA	10/8/1998	RNT	SEW	WR	WR	Renton	Renton Municipal Airport
RXE	ASOS	FAA	2/12/1998	RXE	PIH	WR	WR	Rexburg	Rexburg - Madison County Airport
SAC	ASOS	FAA	4/15/1998	SAC	STO	WR	WR	Sacramento	Sacramento Executive Airport
SAD	OT-ASOS	NWS	9/3/1997	SAD	TWC	WR	WR	Safford	Safford Municipal Airport
SAN	ASOS	NWS	8/1/1996	SAN	SGX	WR	WR	San Diego	San Diego Int'l. Airport (Lindbergh)
SBA	ASOS	FAA	3/4/1998	SBA	LOX	WR	WR	Santa Barbara	Santa Barbara Municipal Airport
SBP	ASOS	FAA	4/1/1998	SBP	LOX	WR	WR	San Luis Obispo	San Luis Obispo County - McChesney
SCK	ASOS	NWS	11/1/1996	SCK	STO	WR	WR	Stockton	Stockton Metropolitan Airport
SDB	ASOS	NWS	4/1/1996	SDB	LOX	WR	WR	Sandberg	Sandberg
SDL	ASOS	FAA	10/30/2001	SDL	PSR	WR	WR	Scottsdale	Scottsdale Airport
SDM	ASOS	NWS	2/1/1997	SDM	SGX	WR	WR	San Diego	Brown Field Municipal Airport
SEA	ASOS	NWS	10/1/1996	SEA	SEW	WR	WR	Seattle	Seattle - Tacoma Int'l. Airport
SFF	ASOS	FAA	10/15/1998	SFF	OTX	WR	WR	Spokane	Felts Field

Procurement Sensitive

Rev. August 7, 2002

TE-8-36

Performance Work Statement

TECHNICAL EXHIBIT 8

AUTOMATED SERVICE OBSERVING SYSTEMS

EQUIP_ID	SYSTEM	AGENCY	COMMISSION DATE	SITE_ID	WFO/CWA	REG	REG	LOCATION	AIRPORT NAME
SFO	ASOS	NWS	10/1/1996	SFO	MTR	WR	WR	San Francisco	San Francisco Int'l. Airport
SHN	OT-ASOS	NWS	5/22/1998	SHN	SEW	WR	WR	Shelton	Sanderson Field
SHR	ASOS	NWS	12/1/1996	SHR	BYZ	WR	CR	Sheridan	Sheridan County Airport
SIY	ASOS	FAA	1/10/2001	SIY	MFR	WR	WR	Montague	Siskiyou County Airport
SJC	ASOS	FAA	7/8/1998	SJC	MTR	WR	WR	San Jose	San Jose Int'l. Airport
SJN	ASOS	FAA	5/26/1999	SJN	FGZ	WR	WR	St. Johns	St. Johns Industrial Air Park
SLC	ASOS	NWS	3/1/1998	SLC	SLC	WR	WR	Salt Lake City	Salt Lake City Int'l. Airport
SLE	ASOS	NWS	7/1/1995	SLE	PQR	WR	WR	Salem	McNary Field
SMF	ASOS	FAA	5/21/1998	SMF	STO	WR	WR	Sacramento	Sacramento Int'l. Airport
SMO	ASOS	FAA	10/5/2000	SMO	LOX	WR	WR	Santa Monica	Santa Monica Municipal Airport
SMP	ASOS	NWS	2/15/1994	SMP	SEW	WR	WR	Stampede Pass	Stampede Pass
SMX	ASOS	NWS	8/1/1996	SMX	LOX	WR	WR	Santa Maria	Santa Maria Public Airport/Capt G.
SNA	ASOS	FAA	2/17/1999	SNA	SGX	WR	WR	Santa Ana	John Wayne Airport - Orange County
SNS	ASOS	FAA	9/9/1998	SNS	MTR	WR	WR	Salinas	Salinas Municipal Airport
SNT	OT-ASOS	NWS	3/13/1998	SNT	PIH	WR	WR	Stanley	Stanley Ranger Station
SPB	ASOS	FAA	8/27/1998	SPB	PQR	WR	WR	Scappoose	Scappoose Industrial Airpark
STS	ASOS	FAA	6/3/1998	STS	MTR	WR	WR	Santa Rosa	Sonoma County Airport
SXT	ASOS	NWS	12/31/1992	SXT	MFR	WR	WR	Sexton Summit	Sexton Summit
TIW	ASOS	FAA	1/14/1999	TIW	SEW	WR	WR	Tacoma	Tacoma Narrows Airport
TPH	ASOS	FAA	11/29/2000	TPH	VEF	WR	WR	Tonopah	Tonopah Airport
TRM	ASOS	FAA	10/11/2000	TRM	SGX	WR	WR	Palm Springs	Thermal Airport
TTD	ASOS	FAA	6/25/1998	TTD	PQR	WR	WR	Portland	Portland - Troutdale Airport
TUS	ASOS	NWS	1/1/1996	TUS	TWC	WR	WR	Tucson	Tucson Int'l. Airport
TVL	ASOS	FAA	10/18/2000	TVL	REV	WR	WR	South Lake Tahoe	Lake Tahoe Airport
TWF	ASOS	FAA	2/27/1997	TWF	BOI	WR	WR	Twin Falls	Magic Valley Regional Airport (Joslin)
UAO	ASOS	FAA	1/29/1997	UAO	PQR	WR	WR	Aurora	Aurora State Airport

Procurement Sensitive

Rev. August 7, 2002

TE-8-37

Performance Work Statement

TECHNICAL EXHIBIT 8

AUTOMATED SERVICE OBSERVING SYSTEMS

EQUIP_ID	SYSTEM	AGENCY	COMMISSION DATE	SITE_ID	WFO/CWA	REG	REG	LOCATION	AIRPORT NAME
UIL	ASOS	NWS	12/1/1996	UIL	SEW	WR	WR	Quillayute	Quillayute State Airport
UKI	ASOS	FAA	1/25/2001	UKI	EKA	WR	WR	Ukiah	Ukiah Municipal Airport
VAFB1	ASOS	USAF	8/31/1994	VAFB1	LOX	WR	WR	Lompoc	
VAFB2	ASOS	USAF	8/31/1994	VAFB2	LOX	WR	WR	Lompoc	
VAFB3	ASOS	USAF	8/31/1994	VAFB3	LOX	WR	WR	Lompoc	
VCB	ASOS	FAA	3/31/1998	VCB	STO	WR	WR	Vacaville	Nut Tree Airport
VEL	ASOS	FAA	1/29/1998	VEL	GJT	WR	WR	Vernal	Vernal Airport
VGJ	ASOS	FAA	9/28/2000	VGJ	VEF	WR	WR	Las Vegas	North Las Vegas Airport
VNY	ASOS	FAA	5/26/1998	VNY	LOX	WR	WR	Van Nuys	Van Nuys Airport
VUO	ASOS	FAA	6/19/1996	VUO	PQR	WR	WR	Vancouver	Pearson Field
WJF	ASOS	FAA	12/13/2000	WJF	LOX	WR	WR	Lancaster	General William J. Fox Airfield
WMC	ASOS	NWS	10/1/1994	WMC	LKN	WR	WR	Winnemucca	Winnemucca Municipal Airport
WVI	ASOS	FAA	7/23/1998	WVI	MTR	WR	WR	Watsonville	Watsonville Municipal Airport
YKM	ASOS	NWS	4/1/1996	YKM	PDT	WR	WR	Yakima	Yakima Air Terminal (McAllister Field)
BIKF	ASOS	NAVY	9/1/1997	BIKF	---			Keflavik	Naval Station
FJDG	ASOS	NAVY		FJDG	---			Diego Garcia	Naval Air Facility
FUJI	ASOS	USAF	5/1/1998	FUJI	---			Camp Fuji	Camp Fuji
GRAF1	ASOS	USAF	5/31/1997	GE-A1	---			Grafenwoehr	Range 301
GRAF2	ASOS	USAF	5/31/1997	GE-A2	---			Grafenwoehr	Range AA
GRAF3	ASOS	USAF	5/31/1997	GE-A3	---			Grafenwoehr	South Staging Area
GRAF4	ASOS	USAF	12/1/1997	GE-A4	---			Grafenwoehr	Amberg LTA
KQNN	ASOS	NAVY	11/20/1996	KQNN	---			Naples	NOCD Naples
KQNS	ASOS	NAVY	6/1/1997	KQNS	---			Sigonella	Sigonella NAS
KQTA	ASOS	NAVY		KQTA	---			Atsugi	Atsugi NAS
LERT	ASOS	NAVY	5/1/1997	LERT	---			Rota	Naval Station
LGSA	ASOS	NAVY		KQNC	---			Souda Bay	NOCD Souda Bay

Procurement Sensitive

Rev. August 7, 2002

TE-8-38

Performance Work Statement

TECHNICAL EXHIBIT 8

AUTOMATED SERVICE OBSERVING SYSTEMS

EQUIP_ID	SYSTEM	AGENCY	COMMISSION DATE	SITE_ID	WFO/CWA	REG	REG	LOCATION	AIRPORT NAME
MSWA1	ASOS	USAF	6/13/1997	JA.A2	---			Misawa	Ripsaw Range
MUGM	ASOS	NAVY	9/7/1996	MUGM	---			Guantanamo Bay	Naval Air Station
NZCM	ASOS	NAVY	10/31/1995	NZCM	---			Antartica	
NZCM2	ASOS	NAVY	10/31/1996	NZCM2	---			Antartica	
RJFW	ASOS	NAVY	11/20/1996	RJFW	---			Sasebo	Sasebo NAF
RJOI	ASOS	NAVY	11/1/1997	RJOI	---			Iwakuni	Sasebo MCAS
RJTX	ASOS	NAVY	6/30/1997	RJTX	---			Yokosuka	NOCD Yokosuka
ROTM	ASOS	NAVY	11/1/1997	ROTM	---			Futemma	Futemma MCAS
ZAMA	ASOS	USAF	5/1/1998	ZAMA	---			Camp Zama	Camp Zama

GRAND TOTAL:	994	
	NWS:	313
	FAA:	572
	USN:	75
	USAF:	34
		994

Procurement Sensitive

Rev. August 7, 2002

TE-8-39

Performance Work Statement

TECHNICAL EXHIBIT 9

LIST OF CUSTOMERS WITH CIRCUITS

<u>Customer</u>	<u>Number of Circuits</u>
National Center for Environmental Prediction	2
Office of Hydrology	1
Haiti	1
Ship	3
Tokyo	1
WAFS	2
Federal Aviation Administration (FAA)	3
VIASALA	1
Honolulu	2
SPC	1
TPC	1
AWC	1
Public Products Service	1
Domestic Data Service	1
International Data Svc	1
Office of Naval Intelligence	1
Wallops Island	1
Dial Receive	1
Dial Receive	1
Canada	1
Bracknell	1
DoD Network	1
Saudi Arabia	1
Pretoria	1
NDBC	1
Brazil	1

Performance Work Statement

TECHNICAL EXHIBIT 9

LIST OF CUSTOMERS WITH CIRCUITS

Argentina	1
Air Resources Lab	1
Weather Information Message System (WIMS)	1
Eastern Region Headquarters	1
Central Region Headquarters	1
Southern Region Headquarters	2
Western Region Headquarters	1
Alaska Region Headquarters	1
Johnson Space Flight Center	1
NASA Goddard	1
NCDC	2
FAA (Atlantic City)	1
NWWS (Chantilly)	2
Honolulu (Pacific Star4)	1
New Orleans (Marta)	1
Boston (Marta)	1
Point Reyes (Marta)	1
EMWIN	1
National Ice Center	1
NESDIS	1
NCF	3
Commercial Customer #1	1
Commercial Customer #2	1
Commercial Customer #3	1
Commercial Customer #4	2
Commercial Customer #5	5
Commercial Customer #6	5

Performance Work Statement

TECHNICAL EXHIBIT 9

LIST OF CUSTOMERS WITH CIRCUITS

Commercial Customer #7	1
Commercial Customer #8	1
Commercial Customer #9	1
Commercial Customer #10	3

DATA FLOW